

GenCore version 5.1.7  
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OM protein - protein search, using SW model

Run on: March 28, 2006, 21:07:35 ; Search time 16.5224 Seconds  
(without alignments)  
405.312 Million cell updates/sec

Title: US-10-717-138-1

Perfect score: 397

Sequence: 1 GPLGSADTLRVTIKIIVDR.....EDAEKIATVGDVANYIQNOQ 81

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued Patents\_AA.\*

2: /cgn2\_6/ptodata/1/1aa/5/COMB.pep.\*

3: /cgn2\_6/ptodata/1/1aa/6/COMB.pep.\*

4: /cgn2\_6/ptodata/1/1aa/H/COMB.pep.\*

5: /cgn2\_6/ptodata/1/1aa/RE/COMB.pep.\*

6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	397	100.0	81	2	US-09-770-834-1
2	238	59.9	79	2	US-09-134-001C-4809
3	234	58.9	77	2	US-10-089-019-26
4	225	56.7	94	2	US-09-543-681A-7956
5	222.5	56.0	80	2	US-09-902-540-14560
6	215	54.2	77	2	US-09-770-834-15
7	215	54.2	78	2	US-10-089-019-34
8	215	54.2	108	2	US-09-489-039A-7550
9	214	53.9	81	2	US-09-252-991A-18646
10	205	51.6	372	2	US-09-252-991A-30132
11	197	49.6	79	2	US-09-198-452A-308
12	197	49.6	80	2	US-09-438-185A-297
13	188	47.4	99	2	US-09-328-352-4669
14	180	45.3	86	2	US-09-107-532A-7143
15	170	42.8	111	2	US-09-248-796A-17438
16	164.5	41.4	100	2	US-09-902-540-13542
17	160	40.3	101	2	US-09-107-532A-7092
18	158.5	39.9	74	2	US-09-583-110-3914
19	158.5	39.9	74	2	US-10-089-019-30
20	154	38.8	122	2	US-09-248-796A-17437
21	153.5	38.7	77	2	US-09-583-110-4176
22	153.5	38.7	84	2	US-09-107-433-4377
23	148.5	37.4	77	2	US-08-858-207A-302
24	148.5	37.4	77	2	US-10-089-019-28
25	134	33.8	97	2	US-09-602-787A-36
26	134	33.8	97	2	US-09-853-137-2
27	122	30.7	120	2	US-09-056-556-195

28	122	30.7	120	2	US-09-072-596-190	Sequence 190, App
29	122	30.7	120	2	US-09-072-967-195	Sequence 195, App
30	122	30.7	120	2	US-10-193-002-190	Sequence 190, App
31	122	30.7	120	2	US-10-084-843-195	Sequence 195, App
32	106	26.7	136	1	US-08-580-545B-8	Sequence 8, App1
33	106	26.7	136	1	US-08-580-545B-8	Sequence 8, App1
34	99.5	25.1	2756	1	US-08-375-709-11	Sequence 11, App1
35	99.5	25.1	2756	1	US-08-752-929-11	Sequence 11, App1
36	99.5	25.1	2756	2	US-09-090-793-7	Sequence 7, App1
37	99.5	25.1	2756	2	US-09-231-899-7	Sequence 7, App1
38	97	24.4	41	1	US-08-453-924-8	Sequence 8, App1
39	94	23.7	110	2	US-09-543-681A-6806	Sequence 6806, App
40	93.5	23.6	93	2	US-09-266-965-117	Sequence 117, App
41	91.5	23.0	1481	2	US-09-231-899-70	Sequence 70, App1
42	85.5	21.5	85	2	US-09-902-540-13340	Sequence 13340, App
43	84	21.2	40	1	US-08-129-129-6	Sequence 6, App1
44	83	20.9	359	2	US-09-266-965-120	Sequence 120, App1
45	76	19.1	84	1	US-08-901-306-4	Sequence 4, App1

## ALIGNMENTS

```

RESULT 1
US-09-770-834-1
; Sequence 1, Application US/09770834
; Patent No. 6684162
; GENERAL INFORMATION:
; APPLICANT: Parfitt, Kevin
; APPLICANT: Somers, William
; APPLICANT: Tam, Amy
; APPLICANT: Lin, Laura
; APPLICANT: Stahl, Mark
; APPLICANT: Powers, Robert
; APPLICANT: Xu, Guan-Yi
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
; FILE REFERENCE: 2368/14
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: US 60/202,466
; PRIORITY FILING DATE: 2000-05-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-770-834-1
Query Match 100.0%; Score 397; DB 2; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.8e-40;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 GPLGSADTLRVTIKIIVDRGVDEADYKLSAFKEDIGASLDVVERVMELEDFDMEIS 60
Db 1 GPLGSADTLRVTIKIIVDRGVDEADYKLSAFKEDIGASLDVVERVMELEDFDMEIS 60
Cy 61 DEDAEKIATVGDVANYIQNOQ 81
Db 61 DEDAEKIATVGDVANYIQNOQ 81
RESULT 2
US-09-134-001C-4809
; Sequence 4809, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C

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;; CURRENT FILING DATE: 1998-08-13  
;; PRIOR APPLICATION NUMBER: US 60/064,964  
;; PRIOR FILING DATE: 1997-11-08  
;; PRIOR APPLICATION NUMBER: US 60/055,779  
;; PRIOR FILING DATE: 1997-08-14  
;; NUMBER OF SEQ ID NOS: 5674  
;; SEQ ID NO 4809  
;; LENGTH: 79  
;; TYPE: PRF  
;; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4809

Query Match 59.9%; Score 238; DB 2; Length 79;  
Best Local Similarity 67.1%; Pred. No. 3.1e-21;  
Matches 49; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVRLGVDEADVLEAFKEDLGADSLDVVELVMEDEDFPMETSDDAEK 66  
DB 4 ENFDPKVDIIVRLGVDAKVTEDASFKDDLGADSLDIIVLWELDEDEFTETIPDEAEK 63

QY 67 IATVGDVAVNYION 79  
DB 64 INTVGDVAVKINS 76

RESULT 3  
US-10-089-019-26  
;; Sequence 26, Application US/10089019  
;; Patent No. 6951729  
;; GENERAL INFORMATION:  
;; APPLICANT: DEMOLF, WALTER E. JR  
;; APPLICANT: KALLENDER, HOWARD  
;; APPLICANT: LONSDALE, JOHN T.  
;; TITLE OF INVENTION: METHODS FOR MAKING AND USING FATTY ACID  
;; FILE REFERENCE: GMS0068  
;; CURRENT APPLICATION NUMBER: US/10/089, 019  
;; CURRENT FILING DATE: 2002-03-25  
;; PRIOR APPLICATION NUMBER: PCT/US00/29451  
;; PRIOR FILING DATE: 2000-10-26  
;; PRIOR APPLICATION NUMBER: 60/161,775  
;; PRIOR FILING DATE: 1999-10-27  
;; NUMBER OF SEQ ID NOS: 37  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 26  
;; LENGTH: 77  
;; TYPE: PRF  
;; ORGANISM: Staphylococcus aureus  
US-10-089-019-26

Query Match 58.9%; Score 234; DB 2; Length 77;  
Best Local Similarity 65.8%; Pred. No. 9e-21;  
Matches 48; Conservative 9; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVRLGVDEADVLEAFKEDLGADSLDVVELVMEDEDFPMETSDDAEK 66  
DB 2 ENFDPKVDIIVRLGVDAKVTEDASFKDDLGADSLDIIVLWELDEDEFTETIPDEAEK 61

QY 67 IATVGDVAVNYION 79  
DB 62 INTVGDVAVKINS 74

RESULT 4  
US-09-543-681A-7956  
;; Sequence 7956, Application US/09543681A  
;; Patent No. 6605709  
;; GENERAL INFORMATION:  
;; APPLICANT: GARY BRETON  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
;; FILE REFERENCE: 2709.1002-001  
;; CURRENT APPLICATION NUMBER: US/09/543, 681A

;; CURRENT FILING DATE: 2000-04-05  
;; PRIOR APPLICATION NUMBER: US 60/128,706  
;; PRIOR FILING DATE: 1999-04-09  
;; NUMBER OF SEQ ID NOS: 8344  
;; SEQ ID NO 7956  
;; LENGTH: 94  
;; TYPE: PRF  
;; ORGANISM: Proteus mirabilis  
US-09-543-681A-7956

Query Match 56.7%; Score 225; DB 2; Length 94;  
Best Local Similarity 65.7%; Pred. No. 1.4e-19;  
Matches 46; Conservative 11; Mismatches 13; Indels 0; Gaps 0;

QY 10 ERYTKIIVRLGVDEADVLEAFKEDLGADSLDVVELVMEDEDFPMETSDDAEK 69  
DB 22 ENFKKTIIVQLGVKEEVNNSAFVDDLGADSLDTVELVMALEEFDEIIPDEAEKIT 81

QY 70 VGDVAVNYION 79  
DB 82 VQALDIIVEN 91

RESULT 5  
US-09-902-540-14560  
;; Sequence 14560, Application US/09902540  
;; Patent No. 6833447  
;; GENERAL INFORMATION:  
;; APPLICANT: Goldman, Barry S.  
;; APPLICANT: Hinkle, Gregory J.  
;; APPLICANT: Slater, Steven C.  
;; APPLICANT: Wiegand, Roger C.  
;; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
;; FILE REFERENCE: 38-10(15849)B  
;; CURRENT APPLICATION NUMBER: US/09/902,540  
;; CURRENT FILING DATE: 2001-07-10  
;; PRIOR APPLICATION NUMBER: 60/217,883  
;; PRIOR FILING DATE: 2000-07-10  
;; NUMBER OF SEQ ID NOS: 16825  
;; SEQ ID NO 14560  
;; LENGTH: 80  
;; TYPE: PRF  
;; ORGANISM: Myxococcus xanthus  
US-09-902-540-14560

Query Match 56.0%; Score 222.5; DB 2; Length 80;  
Best Local Similarity 59.0%; Pred. No. 2.3e-19;  
Matches 46; Conservative 14; Mismatches 17; Indels 1; Gaps 1;

QY 5 SADTLE-RVTKIIVRLGVDEADVLEAFKEDLGADSLDVVELVMEDEDFPMETSDDAEK 63  
DB 2 STSTLEAKKSLIADQLGVDEIKPESFIDLGADSLDIIVLWMAEDEFVETIPDEAEK 61

QY 64 AEXIATVGDVAVNYION 81  
DB 62 AENIKTVADVAVSYINTHK 79

RESULT 6  
US-09-770-834-15  
;; Sequence 15, Application US/09770834  
;; Patent No. 6684162  
;; GENERAL INFORMATION:  
;; APPLICANT: Parris, Kevin  
;; APPLICANT: Somers, William  
;; APPLICANT: Tam, Amy  
;; APPLICANT: Lin, Laura  
;; APPLICANT: Stahl, Mark  
;; APPLICANT: Powers, Robert  
;; APPLICANT: Xu, Guan-Yi  
;; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPs/ACP COMPLEX, SOLUTION STRUCTURE  
;; FILE REFERENCE: 2368/14

CURRENT APPLICATION NUMBER: US/09/770,834  
CURRENT FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 60/202,466  
PRIOR FILING DATE: 2000-05-08  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: Patent version 3.0  
SEQ ID NO 15  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Escherichia coli  
US-09-770-834-15

Query Match 54.2%; Score 215; DB 2; Length 77;  
Best Local Similarity 63.9%; Pred. No. 1.7e-18;  
Matches 46; Conservative 8; Mismatches 18; Indels 0; Gaps 0;

QY 10 ERVTKIIVDRGVADVDVLTLSFKEDLGADSLDVLVLMLEDEDFDMEISDEDAKKT 69  
DB 5 ERVKKIIIGQLGVKQEEVTNNASFVEDLGADSLDVLVLMLEBFDTEIPBEAKKITT 64

QY 70 VGDVAVYIONQ 81  
DB 65 VQAIIDYINGHQ 76

RESULT 7  
US-10-089-019-34  
Sequence 34, Application US/10089019  
Patent No. 6951729  
GENERAL INFORMATION:  
APPLICANT: DEMOLF, WALTER E. JR  
APPLICANT: KALLENDER, HOWARD  
APPLICANT: LONSDALE, JOHN T.  
TITLE OF INVENTION: METHODS FOR MAKING AND USING FATTY ACID  
FILE REFERENCE: GMS0068  
CURRENT APPLICATION NUMBER: US/10/089,019  
CURRENT FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER: PCT/US00/29451  
PRIOR FILING DATE: 2000-10-26  
PRIOR APPLICATION NUMBER: 60/161,775  
PRIOR FILING DATE: 1999-10-27  
NUMBER OF SEQ ID NOS: 37  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 34  
LENGTH: 78  
TYPE: PRT  
ORGANISM: Escherichia coli  
US-10-089-019-34

Query Match 54.2%; Score 215; DB 2; Length 78;  
Best Local Similarity 63.9%; Pred. No. 1.7e-18;  
Matches 46; Conservative 8; Mismatches 18; Indels 0; Gaps 0;

QY 10 ERVTKIIVDRGVADVDVLTLSFKEDLGADSLDVLVLMLEDEDFDMEISDEDAKKT 69  
DB 6 ERVKKIIIGQLGVKQEEVTNNASFVEDLGADSLDVLVLMLEBFDTEIPBEAKKITT 65

QY 70 VGDVAVYIONQ 81  
DB 66 VQAIIDYINGHQ 77

RESULT 8  
US-09-489-039A-7550  
Sequence 7550, Application US/09489039A  
Patent No. 6610836  
GENERAL INFORMATION:  
APPLICANT: Gary Breton et. al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
FILE REFERENCE: 2709,2004001  
CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27  
PRIOR APPLICATION NUMBER: US 60/117,747  
PRIOR FILING DATE: 1999-01-29  
NUMBER OF SEQ ID NOS: 14342  
SEQ ID NO 7550  
LENGTH: 108  
TYPE: PRT  
ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-7550

Query Match 54.2%; Score 215; DB 2; Length 108;  
Best Local Similarity 63.9%; Pred. No. 2.7e-18;  
Matches 46; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 10 ERVTKIIVDRGVADVDVLTLSFKEDLGADSLDVLVLMLEDEDFDMEISDEDAKKT 69  
DB 36 ERVKKIIIGQLGVKQEEVTNNASFVEDLGADSLDVLVLMLEBFDTEIPBEAKKITT 95

QY 70 VGDVAVYIONQ 81  
DB 96 VQAIIDYINGHQ 107

RESULT 9  
US-09-252-991A-18646  
Sequence 18646, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196,136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 18646  
LENGTH: 81  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-18646

Query Match 53.9%; Score 214; DB 2; Length 81;  
Best Local Similarity 59.0%; Pred. No. 2.4e-18;  
Matches 46; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

QY 4 GSAUTLERVTKIIVDRGVADVDVLTLSFKEDLGADSLDVLVLMLEDEDFDMEISDESD 63  
DB 3 GMSITTEERVKKIIVQQLGVKQEEVTNNASFVEDLGADSLDVLVLMLEBFDTEIPBEAK 62

QY 64 AEKATVGDVAVYIONQ 81  
DB 63 AEKITTVOAIDYINGHQ 80

RESULT 10  
US-09-252-991A-30132  
Sequence 30132, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196,136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 30132  
LENGTH: 372  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-30132

Query Match 51.6%; Score 205; DB 2; Length 372;  
Best Local Similarity 50.0%; Pred. No. 2.2e-16;  
Matches 39; Conservative 18; Mismatches 21; Indels 0; Gaps 0;

QY 1 GGLGADTLERVTYKIVDVLKLEASFKEDLGADSLDVLVMELEDFMEISDEDAKIATVG 60  
DB 290 GQCCDDITRRAKLVAAAFVGECDRLDSDRFNDFGASLEVLVMALEAFGEVET 349  
QY 61 DEDAEKIATVGDVAVNYIQ 78  
DB 350 DDAERIEVTVRQADLYLE 367

## RESULT 11

US-09-198-452A-308  
Sequence 308, Application US/09198452A  
Patent No. 6559294

GENERAL INFORMATION:  
APPLICANT: Giffais, R.  
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
TITLE OF INVENTION: thereof, in particular for the diagnosis, prevention  
TITLE OF INVENTION: and treatment of infection  
FILE REFERENCE: 9710-003-999  
CURRENT APPLICATION NUMBER: US/09/198,452A  
CURRENT FILING DATE: 1998-11-24  
NUMBER OF SEQ ID NOS: 6849  
SEQ ID NO 308  
LENGTH: 79  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-308

Query Match 49.6%; Score 197; DB 2; Length 79;  
Best Local Similarity 57.1%; Pred. No. 2.5e-16;  
Matches 40; Conservative 12; Mismatches 18; Indels 0; Gaps 0;

QY 12 VTKIIVDRIGVDADVKLKASFKEDLGADSLDVLVMELEDFMEISDEDAKIATVG 71  
DB 7 VTAIVGEQGVDPKEVNSSFTIEDLNADSLDTLTLTLEKFAFSEDAEKIATVG 66  
QY 72 DAVNYIQNOQ 81  
DB 67 DVFTYIKKRO 76

## RESULT 12

US-09-438-185A-297  
Sequence 297, Application US/09438185A  
Patent No. 6822071

GENERAL INFORMATION:  
APPLICANT: Stephens, Richard  
APPLICANT: Mitchell, Wayne  
APPLICANT: Kalman, Sue  
APPLICANT: Davis, Ronald  
TITLE OF INVENTION: The Regents of the University of California  
TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
FILE REFERENCE: 018941-000411US  
CURRENT APPLICATION NUMBER: US/09/438,185A  
CURRENT FILING DATE: 2002-03-13  
PRIOR APPLICATION NUMBER: US 60/108,279  
PRIOR FILING DATE: 1998-11-12  
PRIOR APPLICATION NUMBER: US 60/128,606  
PRIOR FILING DATE: 1999-04-08  
NUMBER OF SEQ ID NOS: 1074  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 297

LENGTH: 80  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
OTHER INFORMATION: CPN0295  
US-09-438-185A-297

Query Match 49.6%; Score 197; DB 2; Length 80;  
Best Local Similarity 57.1%; Pred. No. 2.6e-16;  
Matches 40; Conservative 12; Mismatches 18; Indels 0; Gaps 0;

QY 12 VTKIIVDRIGVDADVKLKASFKEDLGADSLDVLVMELEDFMEISDEDAKIATVG 71  
DB 8 VTAIVGEQGVDPKEVNSSFTIEDLNADSLDTLTLTLEKFAFSEDAEKIATVG 67  
QY 72 DAVNYIQNOQ 81  
DB 68 DVFTYIKKRO 77

## RESULT 13

US-09-328-352-4669  
Sequence 4669, Application US/09328352  
Patent No. 6562958

GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 4669  
LENGTH: 99  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-4669

Query Match 47.4%; Score 188; DB 2; Length 99;  
Best Local Similarity 48.6%; Pred. No. 4.1e-15;  
Matches 35; Conservative 19; Mismatches 18; Indels 0; Gaps 0;

QY 6 ADTLERVTYKIVDVLKLEASFKEDLGADSLDVLVMELEDFMEISDEDAE 65  
DB 23 SIEGRVKAQVAEQGLKAEIKNBSFMDLDGADSLDVLVMSRENFDTITPDESN 82  
QY 66 KIATVGDVAVNYI 77  
DB 83 EITTVQSAIDV 94

## RESULT 14

US-09-107-532A-7143  
Sequence 7143, Application US/09107532A  
Patent No. 6583275

GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSER: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 7143:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 86 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (8) LOCATION 1..86  
SEQUENCE DESCRIPTION: SEQ ID NO: 7143:  
US-09-107-532A-7143

Query Match 45.3%; Score 180; DB 2; Length 86;  
Best Local Similarity 50.7%; Pred. No. 3, 1e-14;  
Matches 37; Conservative 13; Mismatches 23; Indels 0; Gaps 0;

QY 7 DLEENVKTIIVRLGVDEADVLEKASFKEDLGADSLDVVELVMELEDFDEMEISDEDAEK 66  
DB 11 EVFNNVAKISNHFIDTKVTDLNLNKODLKAISISIMEFVLELEDFGTETISDEDAEQ 70

QY 67 IATVGDAVNYION 79  
DB 71 IETVGADVYISS 83

RESULT 15  
US-09-248-796A-17438  
Sequence 17438, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinsrock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 17438  
LENGTH: 111  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-17438

Query Match 42.8%; Score 170; DB 2; Length 111;  
Best Local Similarity 40.0%; Pred. No. 6, 9e-13;  
Matches 32; Conservative 23; Mismatches 25; Indels 0; Gaps 0;

QY 2 PLGSADTLERVTKIIVRLGVDEADVLEKASFKEDLGADSLDVVELVMELEDFDEMEISD 61  
DB 30 PISKREVTSTRAIQALKTVAFLQESNITLESSFOKDLGSLDPTVEALVALREDFPLEIPD 89

QY 62 EDAEKIATVGDAVNYIONQ 81

DB 90 KISDEIKTVGEADVYIKKE 109

Search completed: March 28, 2006, 21:08:36  
Job time: 17.5224 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using SW model

Run on: March 28, 2006, 21:22:30 ; Search time 93.4925 Seconds  
(without alignments)  
361.999 Million cell updates/sec

Title: US-10-717-138-1

Perfect score: 397  
Sequence: 1 GPLSGADTLERTVTKIIVDRL.....EDAEKATVGDANYIONQ 81

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/ptodata/1/pubppa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubppa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubppa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubppa/US10\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubppa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubppa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	397	100.0	81	US-09-770-834-1	Sequence 1, Appli
2	397	100.0	81	US-10-717-138-1	Sequence 1, Appli
3	307	77.3	80	US-10-282-122A-6208	Sequence 46208, A
4	284	71.5	77	US-10-282-122A-6082	Sequence 6082, A
5	254	64.0	76	US-09-815-242-10973	Sequence 10973, A
6	254	64.0	76	US-10-282-122A-58089	Sequence 58089, A
7	249	62.7	76	US-10-282-122A-67443	Sequence 67443, A
8	239	60.2	110	US-10-282-122A-77373	Sequence 77373, A
9	238	59.9	77	US-10-282-122A-70919	Sequence 70919, A
10	238	59.9	77	US-10-282-122A-71791	Sequence 71791, A
11	238	59.9	79	US-10-724-972A-5601	Sequence 5601, A
12	236	59.4	77	US-10-282-122A-51523	Sequence 51523, A
13	234	58.9	77	US-09-815-242-12802	Sequence 12802, A
14	234	58.9	77	US-09-815-242-13101	Sequence 13101, A
15	234	58.9	77	US-10-282-122A-44414	Sequence 44414, A
16	234	58.9	77	US-10-857-625-626	Sequence 626, App
17	232	58.4	73	US-09-815-242-5462	Sequence 5462, A
18	232	58.4	77	US-09-815-242-12124	Sequence 12124, A
19	227	57.1	79	US-10-282-122A-51445	Sequence 51445, A
20	226.5	57.1	78	US-10-282-122A-78573	Sequence 78573, A
21	225	56.7	104	US-10-282-122A-52553	Sequence 52553, A
22	223.5	56.3	75	US-10-369-493-8522	Sequence 8522, App
23	222.5	56.0	72	US-10-369-493-7064	Sequence 7064, App
24	222.5	56.0	78	US-10-369-493-4308	Sequence 4308, App
25	222.5	56.0	79	US-10-282-122A-47901	Sequence 47901, A
26	222.5	56.0	79	US-10-282-122A-49501	Sequence 49501, A
27	222.5	56.0	79	US-10-282-122A-50326	Sequence 50326, A

## ALIGNMENTS

28	222	55.9	78	4	US-10-369-493-132	Sequence 132, App
29	222	55.9	80	5	US-10-501-282-4732	Sequence 4732, App
30	220	55.4	75	4	US-10-369-493-21035	Sequence 21035, A
31	220	55.4	82	4	US-10-282-122A-61113	Sequence 61113, A
32	217	54.7	71	4	US-10-369-493-9111	Sequence 9111, App
33	217	54.7	76	4	US-10-369-493-10628	Sequence 10628, A
34	217	54.7	78	4	US-10-282-122A-65150	Sequence 65150, A
35	216	54.4	78	4	US-10-369-493-12321	Sequence 12321, A
36	216	54.4	78	4	US-10-282-122A-65380	Sequence 65380, A
37	215	54.2	77	3	US-09-770-834-15	Sequence 15, Appl
38	215	54.2	78	3	US-10-717-138-15	Sequence 15, Appl
39	215	54.2	78	3	US-09-815-242-10127	Sequence 10127, A
40	215	54.2	78	4	US-10-230-331-39	Sequence 39, Appl
41	215	54.2	78	4	US-10-369-493-795	Sequence 795, App
42	215	54.2	78	4	US-10-282-122A-43145	Sequence 43145, A
43	215	54.2	78	4	US-10-282-122A-67855	Sequence 67855, A
44	215	54.2	78	4	US-10-282-122A-72742	Sequence 72742, A
45	215	54.2	78	4	US-10-282-122A-75153	Sequence 75153, A

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RESULT 1
US-09-770-834-1
Sequence 1, Application US/09770834
Publication No. US20030211588A1
GENERAL INFORMATION:
APPLICANT: Somers, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
APPLICANT: Powers, Robert
APPLICANT: Xu, Guan-Yi
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPs/ACP COMPLEX, SOLUTION STRUCTURE
FILE REFERENCE: 2368/14
CURRENT FILING DATE: 2001-10-12
PRIOR APPLICATION NUMBER: US 60/202,466
PRIOR FILING DATE: 2000-05-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 81
TYPE: PRT
ORGANISM: Bacillus subtilis
US-09-770-834-1
Query Match 100.0%; Score 397; DB 3; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.7e-35;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 GPLSGADTLERTVTKIIVDRLGVADADYKLSFKEDLGADSLDVELVMELEDEPDEMS 60
1 GPLSGADTLERTVTKIIVDRLGVADADYKLSFKEDLGADSLDVELVMELEDEPDEMS 60
61 DEDAEKATVGDANYIONQ 81
61 DEDAEKATVGDANYIONQ 81
DB
US-10-717-138-1
Sequence 1, Application US/10717138
Publication No. US20040078147A1
GENERAL INFORMATION:
APPLICANT: Parriss, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
```

```
APPLICANT: Powers, Robert
APPLICANT: Xu, Guan-Yi
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
TITLE OF INVENTION: OF B. SUBTILIS ACP, AND USES THEREOF
FILE REFERENCE: 2368/14
CURRENT APPLICATION NUMBER: US/10/717,138
CURRENT FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US/09/770,834
PRIOR FILING DATE: 2001-10-12
PRIOR APPLICATION NUMBER: US 60/202,466
PRIOR FILING DATE: 2000-05-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 81
TYPE: PRT
ORGANISM: Bacillus subtilis
US-10-717-138-1
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Query Match 100.0%; Score 397; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.7e-35;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GPAGSADTTERVTKIIVDLRGVDEADVKLEASFKEDIGADSLDVVELVMELEDFPMETIS 60
DB 1 GPAGSADTTERVTKIIVDLRGVDEADVKLEASFKEDIGADSLDVVELVMELEDFPMETIS 60
QY 61 DEDAEKIATVGDAVNYIONQ 81
DB 61 DEDAEKIATVGDAVNYIONQ 81
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RESULT 3
US-10-282-122A-46208
Sequence 46208, Application US/10282122A
Publication NO. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zybskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
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Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 46208
LENGTH: 80
TYPE: PRT
ORGANISM: Bacillus anthracis
US-10-282-122A-46208
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Query Match 77.3%; Score 307; DB 4; Length 80;
Best Local Similarity 82.9%; Pred. No. 1.4e-25;
Matches 63; Conservative 6; Mismatches 7; Indels 0; Gaps 0;
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QY 4 GSADTTERVTKIIVDLRGVDEADVKLEASFKEDIGADSLDVVELVMELEDFPMETIS 63
DB 3 GSADTTERVTKIIVDLRGVDEADVKLEASFKEDIGADSLDVVELVMELEDFPMETIS 62
QY 64 AEKIATVGDAVNYION 79
DB 63 AEKIATVGDAVNYIES 78
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RESULT 4
US-10-282-122A-60882
Sequence 60882, Application US/10282122A
Publication NO. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zybskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 60882
LENGTH: 77
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-10-282-122A-60882
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Query Match 71.5%; Score 284; DB 4; Length 77;
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Best Local Similarity 80.8%; Pred. No. 4,1e-23;  
Matches 59; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

Qy 6 ADLTERKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAE 65  
Db 2 AEVLEKTKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAE 61  
Qy 66 KIATVGVAVYIQ 78  
Db 62 NINTVGVAVYIQ 74

## RESULT 5

US-09-815-242-10973  
Sequence 10973, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyskind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILS REFERENCES: ELITRA.011a  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10973  
LENGTH: 76  
TYPE: PRT  
ORGANISM: Haemophilus influenzae  
US-09-815-242-10973

Query Match 64.0%; Score 254; DB 3; Length 76;  
Best Local Similarity 72.2%; Pred. No. 7,1e-20;  
Matches 52; Conservative 8; Mismatches 12; Indels 0; Gaps 0;

Qy 10 ERYTKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAEKIAT 69  
Db 5 ERYKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAEKIAT 64  
Qy 70 VGDVAVYIQNOQ 81  
Db 65 VOSAIIDYVQNNQ 76

## RESULT 6

US-10-282-122A-58089  
Sequence 58089, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Yamamoto, Robert  
APPLICANT: Foreyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Foreyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 58089  
LENGTH: 76  
TYPE: PRT  
ORGANISM: Haemophilus influenzae  
US-10-282-122A-58089

Query Match 64.0%; Score 254; DB 4; Length 76;  
Best Local Similarity 72.2%; Pred. No. 7,1e-20;  
Matches 52; Conservative 8; Mismatches 12; Indels 0; Gaps 0;

Qy 10 ERYTKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAEKIAT 69  
Db 5 ERYKTIIVRLGVDEADVKEASFKEKDLGADSLDVVELVMELEDFEPMETSDAEKIAT 64  
Qy 70 VGDVAVYIQNOQ 81  
Db 65 VOSAIIDYVQNNQ 76

## RESULT 7

US-10-282-122A-67443  
Sequence 67443, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Foreyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms



FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 67443  
LENGTH: 76  
TYPE: PRT  
ORGANISM: Pasteurella multocida  
US-10-282-122A-67443

Query Match 62.7%; Score 249; DB 4; Length 76;  
Best Local Similarity 70.8%; Pred. No. 2,5e-19;  
Matches 51; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 10 ERTKTIIVRLGVDKDEAVKLEASFKEDLGADSLDVVELVMELEDFPMETISDDAEKITT 69  
DB 5 ERVKKTIIVEGLGVDEAVKNESSFVEDLGADSLDVVELVMALEEFDTETPEAEKITT 64  
QY 70 VGDVAVYIIONQ 81  
DB 65 VQSAIDYVQNNQ 76

## RESULT 8

US-10-282-122A-77373  
Sequence 77373, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 77373  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Vibrio cholerae  
US-10-282-122A-77373

Query Match 60.2%; Score 239; DB 4; Length 110;  
Best Local Similarity 72.1%; Pred. No. 4.7e-18;  
Matches 49; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

QY 10 ERTKTIIVRLGVDKDEAVKLEASFKEDLGADSLDVVELVMELEDFPMETISDDAEKITT 69  
DB 38 ERVKKTIIVEGLGVDEAVKNESSFVEDLGADSLDVVELVMALEEFDTETPEAEKITT 97  
QY 70 VGDVAVYI 77  
DB 98 VQSAIDYV 105

## RESULT 9

US-10-282-122A-70919  
Sequence 70919, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 70919  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Staphylococcus epidermidis  
US-10-282-122A-70919

Query Match 59.9%; Score 238; DB 4; Length 77;  
Best Local Similarity 67.1%; Pred. No. 3,8e-18;  
Matches 49; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVDRIGVADVKLEASFKEDLGADSLDVELVMELEDFEPMESDEDAEK 66  
DB 2 ENPKVKVDIIVRLGVADKVTEDASFQDGLGADSLDIAELVMELEDFEFTETPDEBAEK 61  
QY 67 IATVGDVAVNYION 79  
DB 62 INTVGDVAVKXINS 74

## RESULT 10

US-10-282-122A-71791  
Sequence 71791, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:

APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Foreyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 71791

LENGTH: 77  
TYPE: PRT  
ORGANISM: Staphylococcus haemolyticus

US-10-282-122A-71791

Query Match 59.9%; Score 238; DB 4; Length 77;  
Best Local Similarity 67.1%; Pred. No. 3,8e-18;  
Matches 49; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVDRIGVADVKLEASFKEDLGADSLDVELVMELEDFEPMESDEDAEK 66  
DB 2 ENPKVKVDIIVRLGVADKVTEDASFQDGLGADSLDIAELVMELEDFEFTETPDEBAEK 61  
QY 67 IATVGDVAVNYION 79  
DB 62 INTVGDVAVKXINS 74

## RESULT 11

US-10-724-972A-5601  
Sequence 5601, Application US/10724972A  
Publication No. US2004014734A1  
GENERAL INFORMATION:

APPLICANT: Doucette-Stamm, Lynn  
APPLICANT: Bush, David  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
FILE REFERENCE: PATH03-16  
CURRENT APPLICATION NUMBER: US/10/724,972A  
CURRENT FILING DATE: 2003-12-01  
PRIOR APPLICATION NUMBER: 09/450,969  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: 09/134,001  
PRIOR FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: 60/064,964  
PRIOR FILING DATE: 1997-11-08  
PRIOR APPLICATION NUMBER: 60/055,779  
PRIOR FILING DATE: 1997-08-14  
NUMBER OF SEQ ID NOS: 7544  
SEQ ID NO 5601  
LENGTH: 79  
TYPE: PRT  
ORGANISM: S. epidermidis  
US-10-724-972A-5601

Query Match 59.9%; Score 238; DB 4; Length 79;  
Best Local Similarity 67.1%; Pred. No. 4e-18;  
Matches 49; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVDRIGVADVKLEASFKEDLGADSLDVELVMELEDFEPMESDEDAEK 66  
DB 4 ENPKVKVDIIVRLGVADKVTEDASFQDGLGADSLDIAELVMELEDFEFTETPDEBAEK 63  
QY 67 IATVGDVAVNYION 79  
DB 64 INTVGDVAVKXINS 76

## RESULT 12

US-10-282-122A-51523  
Sequence 51523, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:

APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Foreyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1.  
SEQ ID NO 51523  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Clostridium acetobutylicum  
US-10-282-122A-51523

Query Match 59.4%; Score 236; DB 4; Length 77;  
Best Local Similarity 60.9%; Pred. No. 6,3e-18; Mismatches 9; Indels 0; Gaps 0;  
Matches 42; Conservative 18; Mismatches 9; Indels 0; Gaps 0;

QY 10 ERYTKIIVRLGVDAVDKLEASFKEDLGADSLDVVELVWELDEDFMEISDDEAK 69  
DB 4 EKVKDIADQIGDAIDKESFIDIDGASDIIVLWELDEDFMEISDDEAKVSS 63  
QY 70 VGDVAVYIQ 78  
DB 64 VGDVAVYIK 72

RESULT 13  
US-09-815-242-12802  
Sequence 12802, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyskind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27

FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 12802  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Staphylococcus aureus  
US-09-815-242-12802

Query Match 58.9%; Score 234; DB 3; Length 77;  
Best Local Similarity 65.8%; Pred. No. 1e-17; Mismatches 16; Indels 0; Gaps 0;  
Matches 48; Conservative 9; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVRLGVDAVDKLEASFKEDLGADSLDVVELVWELDEDFMEISDDEAK 66  
DB 2 ENFDKVDIIVRLGVDAVDKLEASFKEDLGADSLDVVELVWELDEDFMEISDDEAK 61  
QY 67 IATVGDVAVYION 79  
DB 62 INTVGDVAVYINS 74

RESULT 14  
US-09-815-242-13101  
Sequence 13101, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyskind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13101  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Staphylococcus aureus  
US-09-815-242-13101

Query Match 58.9%; Score 234; DB 3; Length 77;  
Best Local Similarity 65.8%; Pred. No. 1e-17; Mismatches 16; Indels 0; Gaps 0;  
Matches 48; Conservative 9; Mismatches 16; Indels 0; Gaps 0;

QY 7 DTLERYTKIIVRLGVDAVDKLEASFKEDLGADSLDVVELVWELDEDFMEISDDEAK 66  
DB 2 ENFDKVDIIVRLGVDAVDKLEASFKEDLGADSLDVVELVWELDEDFMEISDDEAK 61

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QY      67 IATVGDAVN YIQN 79
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Db      62 INTVGDAVKFINS 74
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RESULT 15  
IIS-10-282

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; -10-282-122A-44414
; Sequence 44414, Application US/10262122A
; Publication No.: US20040029125A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangnu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44414
; LENGTH: 77
; TYPE: PRF
; ORGANISM: Staphylococcus aureus
; -10-282-122A-44414

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Query Match	58.9%	Score 234	DB 4	Length 77
Similarity	65.8%	Pred. No. 1e-17		
Best Local				
Matches 48	Conservative 9	Mismatches 16	Indels 0	Gaps 0

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QY      7 DTLERVTKIIVDRLGVDADVKLEASFEDLGGADSLDVLVELMELEDFPDMEISDEDAEK 666
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Db     2 ENFDKVKDIIVDRLGVDADKVIEDASFPDDLGGADSLDIABLVMELEDFGFEIIPDEBAEK 611
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QY	67	IATVGDAVN	YIQN	79
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Db	62	INTVGDAVK	PINS	74

Search completed: March 28, 2006, 21:27:28  
Job time : 94.4925 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 28, 2006, 21:23:45 ; Search time 12.4925 Seconds  
(without alignments)  
191.238 Million cell updates/sec

Title: US-10-717-138-1

Perfect score: 397  
Sequence: 1 GFLGSADTERTYKIVDR.....EDAKIATVGDANYIQNQ 81

Scoring table: BLOSUM62  
Gapop 10.0 , Gapept 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications AA New:  
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8: /SIDS5/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	217	54.7	76	6	US-10-467-657-4016 Sequence 4016, Ap
2	217	54.7	78	6	US-10-467-657-3996 Sequence 3996, Ap
3	217	54.7	78	6	US-10-467-657-7044 Sequence 7044, Ap
4	136	34.3	136	7	US-11-096-568A-4105 Sequence 4105, Ap
5	135	34.0	178	6	US-10-821-234-1052 Sequence 1052, Ap
6	94.5	23.8	2910	7	US-11-087-100-2 Sequence 2, Appl
7	94.5	23.8	2910	7	US-11-087-084-2 Sequence 2, Appl
8	94.5	23.8	2910	7	US-11-087-085-2 Sequence 2, Appl
9	94.5	23.8	86	7	US-11-087-100-13 Sequence 13, Appl
10	91.5	23.0	86	7	US-11-087-084-13 Sequence 13, Appl
11	91.5	23.0	86	7	US-11-087-085-13 Sequence 13, Appl
12	84	21.2	823	7	US-11-087-099-12259 Sequence 12259, A
13	80.5	20.3	366	6	US-10-524-647-126 Sequence 126, App
14	80.5	20.3	366	6	US-10-524-972-114 Sequence 114, App
15	80.5	20.3	628	7	US-11-087-099-4659 Sequence 4659, App
16	76	19.1	715	7	US-11-087-099-808 Sequence 808, App
17	74.5	18.8	828	7	US-11-087-099-2436 Sequence 2436, App
18	73.5	18.5	371	6	US-10-467-962B-41 Sequence 41, Appl
19	72	18.1	828	7	US-11-087-099-5157 Sequence 5157, Ap
20	71	17.9	1184	7	US-11-115-639-49 Sequence 49, Appl
21	71	17.9	1184	7	US-11-115-639-50 Sequence 50, Appl
22	69.5	17.5	1184	7	US-11-115-639-51 Sequence 51, Appl
23	69.5	17.5	649	7	US-11-232-406A-12 Sequence 12, Appl
24	68	17.1	697	7	US-11-074-176-214 Sequence 214, App
25	67	16.9	3475	7	US-11-087-099-10885 Sequence 10885, A

26	66	16.6	353	7	US-11-096-568A-31346 Sequence 31346, A
27	66	16.6	845	7	US-11-096-568A-28842 Sequence 28842, A
28	66	16.6	897	7	US-11-096-568A-28841 Sequence 28841, A
29	66	16.6	912	7	US-11-096-568A-28840 Sequence 28840, A
30	66	16.6	1078	7	US-11-165-211-43 Sequence 43, Appl
31	66	16.6	1078	7	US-11-165-226-53 Sequence 53, Appl
32	65.5	16.5	412	7	US-11-082-389-96 Sequence 96, Appl
33	65.5	16.5	1090	7	US-11-096-568A-30655 Sequence 30655, A
34	65.5	16.5	1119	7	US-11-096-568A-30531 Sequence 30531, A
35	65.5	16.5	1120	7	US-11-096-568A-30654 Sequence 30654, A
36	65.5	16.5	1149	7	US-11-096-568A-30530 Sequence 30530, A
37	65.5	16.5	1200	7	US-11-096-568A-30530 Sequence 30530, A
38	65.5	16.5	1229	7	US-11-096-568A-30529 Sequence 30529, A
39	64.5	16.2	332	7	US-11-096-568A-8378 Sequence 8378, Ap
40	64.5	16.2	348	7	US-11-096-568A-8377 Sequence 8377, Ap
41	64.5	16.2	349	7	US-11-096-568A-8377 Sequence 8377, Ap
42	64	16.1	226	7	US-11-024-959-501 Sequence 501, App
43	64	16.1	3488	7	US-11-087-099-9005 Sequence 9005, App
44	63.5	16.0	619	6	US-10-537-002-102 Sequence 102, App
45	63.5	16.0	1070	6	US-10-537-002-114 Sequence 14, Appl

## ALIGNMENTS

```

RESULT 1
US-10-467-657-4016
; Sequence 4016, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 4016
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-4016

Query Match      54.7%; Score 217; DB 6; Length 76;
Best Local Similarity 66.2%; Pred. No. 3.3e-15;
Matches 45; Conservative 11; Mismatches 12; Indels 0; Gaps 0;

QY 10 EVHTKIYDRIGVDEADYGLBASFKEDIGADSLDYVELMELEDFRDEISDPAKIAT 69
Db 4 QGVKTLIEQLQLEWADVWVNSSFDQDLSADSLDYVELWALBEAFGCILPPEDAKITT 63
QY 70 VGDVAVNYI 77
Db 64 VOLAIDYI 71

RESULT 2
US-10-467-657-3996
; Sequence 3996, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS

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; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWm99, version 1.04
; SEQ ID NO: 3996
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3996

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Query Match      54.7%; Score 217; DB 6; Length 78;
Best Local Similarity 66.2%; Pred. No. 3.4e-15;
Matches 45; Conservative 11; Mismatches 12; Indels 0; Gaps 0;

QY 10 ERYTKIIVRLGVDEADVLEASFKEDLGADSLDVLELWMELEDFPMEISDEDAKITT 69
DB 6 QGVKKIIAEQLVNEADVKNSSFPDDLGADSLDVLELWALBEAFGCEIPDEDAKITT 65
QY 70 VGDVAVNYI 77
DB 66 VOLAIDYI 73

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RESULT 3
US-10-467-7044
; Sequence 7044, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWm99, version 1.04
; SEQ ID NO: 7044
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-7044

```

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Query Match      54.7%; Score 217; DB 6; Length 78;
Best Local Similarity 66.2%; Pred. No. 3.4e-15;
Matches 45; Conservative 11; Mismatches 12; Indels 0; Gaps 0;

QY 10 ERYTKIIVRLGVDEADVLEASFKEDLGADSLDVLELWMELEDFPMEISDEDAKITT 69
DB 6 QGVKKIIAEQLVNEADVKNSSFPDDLGADSLDVLELWALBEAFGCEIPDEDAKITT 65
QY 70 VGDVAVNYI 77
DB 66 VOLAIDYI 73

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RESULT 4
US-11-066-568A-4105
; Sequence 4105, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

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; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO: 4105
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(136)
; OTHER INFORMATION: Ceres Seq. ID no. 13594815
US-11-096-568A-4105

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Query Match      34.3%; Score 136; DB 7; Length 136;
Best Local Similarity 39.2%; Pred. No. 7.4e-07;
Matches 29; Conservative 22; Mismatches 21; Indels 2; Gaps 2;

QY 7 DTLERVKIIVRLGVDEADVLEASFK-EDLGADSLDVLELWMELEDFPMEISDEDAE 65
DB 56 ETVQKVDIVNEQLAL-SADTALTAESKFSALGADSLDVLELWALBEKFNISVEADAO 114
QY 66 KIATVGAIVNTION 79
DB 115 NITTIQEAADLIED 128

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RESULT 5
US-10-821-234-1052
; Sequence 1052, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andermann, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_gene version 1.0
; SEQ ID NO: 1052
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1052

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Query Match      34.0%; Score 135; DB 6; Length 178;
Best Local Similarity 37.5%; Pred. No. 1.3e-06;
Matches 30; Conservative 17; Mismatches 33; Indels 0; Gaps 0;

QY 2 PLGSADTLERYVKIIVRLGVDEADVLEASFKEDLGADSLDVLELWMELEDFPMEISD 61
DB 95 PLTLEGIDRVLYVLKVDKIDPEKLSVNSHFMKDLGDSLDOVRIIAMEDEFFELIPD 154
QY 62 EDAEKIATVGAIVNTIONQO 81
DB 155 IDAEKLMCPQEIYDYADKK 174

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RESULT 6
US-11-087-100-2
; Sequence 2, Application US/11087100
; Publication No. US20050266440A1
; GENERAL INFORMATION:
; APPLICANT: Metc, James
; APPLICANT: Barclay, William
; APPLICANT: Flatt, James
; APPLICANT: Kumer, Jerry
; TITLE OF INVENTION: Nucleic Acid Molecule Encoding ORFA of a PUFA Polyketide Synthase
; FILE REFERENCE: 2997-29

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RESULT 11
US-11-087-085-13
: Sequence 13, Application US/11087085
: Publication No. US20050273884A1
: GENERAL INFORMATION:
: APPLICANT: Metz, James
: APPLICANT: Barclay, William
: APPLICANT: Flatt, James
: APPLICANT: Kumer, Jerry
: TITLE OF INVENTION: Nucleic Acid Molecule Encoding ORFA of a PUFA Polyketide Synthase
: TITLE OF INVENTION: System and Uses Thereof
: FILE REFERENCE: 2997-29
: CURRENT APPLICATION NUMBER: US/11/087, 085
: CURRENT FILING DATE: 2005-03-21
: PRIOR APPLICATION NUMBER: 09/231, 899
: PRIOR FILING DATE: 1999-01-14

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RESULT 13  
US-10-524-647-126  
Sequence 126, Application US/10524647  
Publication No. US20050281909A1  
GENERAL INFORMATION:  
APPLICANT: Flachmann, Ralf  
APPLICANT: Sauer, Malt  
APPLICANT: Schopfer, Christel R.  
APPLICANT: Klebsattel, Martin  
APPLICANT: Pfeiffer, Angelika-Maria  
APPLICANT: Luck, Thomas  
APPLICANT: Voeste, Dirk  
TITLE OF INVENTION: Use of astaxanthin-containing plants or parts of plants of the  
TITLE OF INVENTION: genus Tagetes as feedstuffs  
FILE REFERENCE: 13173-00004-US  
CURRENT APPLICATION NUMBER: US/10/524,647



CURRENT FILING DATE: 2005-02-17  
PRIOR APPLICATION NUMBER: PCT/EP2003/009109  
PRIOR FILING DATE: 2003-08-18  
PRIOR APPLICATION NUMBER: DE 102 38 980.2  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 38 978.0  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 38 979.9  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 53 112.9  
PRIOR FILING DATE: 2002-11-13  
PRIOR APPLICATION NUMBER: DE 102 58 971.2  
PRIOR FILING DATE: 2002-12-16  
NUMBER OF SEQ ID NOS: 142  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 126  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Sinaps alba  
US-10-524-647-126

Query Match 20.3%; Score 80.5; DB 6; Length 366;  
Best Local Similarity 27.8%; Pred. No. 0.8;  
Matches 27; Conservative 21; Mismatches 30; Indels 19; Gaps 3;

QY 4 GSADTLERYTK-----IIVDRIGVDEADVTKLEASFKEPDLGADSLDVELV-MELE 52

DB 269 GSDEIEHRLAKFKARCIGLFGQVDDIIDLVTYKSSQELKTAGKLIADKLTYPKLMGLEKS 328

QY 53 DEFDMEISDE-----DAEKIATVGDAVNYIONQ 81

DB 329 REFAEKLTAEARDQLGFDSDKVAPLALANYIANRQ 365

## RESULT 14

US-10-524-972-114  
Sequence 114, Application US/10524972  
Publication No. US20060031963A1  
GENERAL INFORMATION:  
APPLICANT: Schopfer, Christel R.  
APPLICANT: Flachmann, Ralf  
APPLICANT: Herbers, Karin  
APPLICANT: Kunze, Irene  
APPLICANT: Sauer, Marc  
APPLICANT: Klebsattel, Martin  
TITLE OF INVENTION: Method for the production of Aetaxanthin in flowers of plants  
FILE REFERENCE: 13173-00007-US  
CURRENT APPLICATION NUMBER: US/10/524,972  
CURRENT FILING DATE: 2005-02-18  
PRIOR APPLICATION NUMBER: PCT/EP2003/009102  
PRIOR FILING DATE: 2003-08-18  
PRIOR APPLICATION NUMBER: DE 102 38 980.2  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 38 978.0  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 38 979.9  
PRIOR FILING DATE: 2002-08-20  
PRIOR APPLICATION NUMBER: DE 102 53 112.9  
PRIOR FILING DATE: 2002-11-13  
PRIOR APPLICATION NUMBER: DE 102 58 971.2  
PRIOR FILING DATE: 2002-12-16  
NUMBER OF SEQ ID NOS: 172  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 114  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Sinaps alba  
US-10-524-972-114

Query Match 20.3%; Score 80.5; DB 6; Length 366;  
Best Local Similarity 27.8%; Pred. No. 0.8;  
Matches 27; Conservative 21; Mismatches 30; Indels 19; Gaps 3;

QY 4 GSADTLERYTK-----IIVDRIGVDEADVTKLEASFKEPDLGADSLDVELV-MELE 52  
DB 269 GSDEIEHRLAKFKARCIGLFGQVDDIIDLVTYKSSQELKTAGKLIADKLTYPKLMGLEKS 328  
QY 53 DEFDMEISDE-----DAEKIATVGDAVNYIONQ 81  
DB 329 REFAEKLTAEARDQLGFDSDKVAPLALANYIANRQ 365

## RESULT 15

US-11-087-099-4659  
Sequence 4659, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Marc S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 4659  
LENGTH: 628  
TYPE: PRT  
ORGANISM: Fusobacterium nucleatum subsp. Vincentii ATCC 49256  
US-11-087-099-4659

Query Match 20.3%; Score 80.5; DB 7; Length 628;  
Best Local Similarity 31.9%; Pred. No. 1.5;  
Matches 23; Conservative 14; Mismatches 34; Indels 1; Gaps 1;

QY 10 ERYTKIIVRIGVDEADVTKLEASFKEPDLGADSLDVELVMELEDEPDMESDDEKLIAT 69

DB 334 ERYNKIKKYLINKEADVTFDSHIEIDLQMSDLDWVEFGHFLDLNNGIK-BDNLISKYPT 392

QY 70 VGDVAVNYIONQ 81

DB 393 LLELANYITDNK 404

Search completed: March 28, 2006, 21:28:04  
Job time: 13.4925 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Biocollaboration Ltd.

OM protein - protein search, using sw model

Run on: March 28, 2006, 21:07:35 ; Search time 24.4776 Seconds  
(without alignments)  
405.312 Million cell updates/sec

Title: US-10-717-138-2

Sequence: 1 AVGIGDITELKRIASMG...SINTKEVAQAQVIERLS 120

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*  
2: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*  
3: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*  
4: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*  
5: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*  
6: /cgn2\_6/prodata/1/aa/5/COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	595	100.0	120	2	US-09-770-834-2
2	591	99.3	121	2	US-09-163-446-4
3	591	99.3	121	2	US-09-770-834-12
4	591	99.3	121	2	US-09-771-383-1
5	591	99.3	121	2	US-09-771-383-11
6	281.5	47.3	124	2	US-09-134-001C-4274
7	278	46.7	119	2	US-09-770-834-6
8	278	46.7	119	2	US-09-771-383-5
9	260	43.7	129	2	US-09-107-532A-6990
10	243	40.8	122	2	US-09-583-110-3157
11	243	40.8	122	2	US-08-987-144-2
12	243	40.8	156	2	US-09-163-446-2
13	243	40.8	157	2	US-09-107-433-4199
14	209.5	35.2	138	2	US-09-543-681A-7596
15	201.5	33.9	169	2	US-09-770-834-7
16	201.5	33.9	169	2	US-09-771-383-6
17	201	33.8	126	2	US-09-770-834-9
18	201	33.8	126	2	US-09-771-383-8
19	189.5	31.8	126	2	US-08-728-742A-10
20	189.5	31.8	126	2	US-09-770-834-8
21	189.5	31.8	156	2	US-09-771-383-7
22	189.5	31.8	122	2	US-09-489-039A-11671
23	177.5	29.8	122	2	US-09-198-452A-330
24	177.5	29.8	122	2	US-09-770-834-4
25	177.5	29.8	122	2	US-09-771-383-3
26	177.5	29.8	133	2	US-09-438-185A-315
27	173	29.1	125	2	US-09-770-834-11

28	173	29.1	125	2	US-09-771-383-10	Sequence 10, Appl
29	166.5	28.0	119	2	US-09-770-834-5	Sequence 5, Appl
30	166.5	28.0	119	2	US-09-771-383-4	Sequence 4, Appl
31	152.5	25.6	124	2	US-09-543-681A-6834	Sequence 6834, Ap
32	151	25.4	123	2	US-09-770-834-10	Sequence 10, Appl
33	151	25.4	123	2	US-09-771-383-9	Sequence 9, Appl
34	141.5	23.8	139	2	US-09-770-834-13	Sequence 13, Appl
35	141.5	23.8	139	2	US-09-771-383-12	Sequence 12, Appl
36	134	22.5	126	2	US-09-902-540-10894	Sequence 10894, A
37	129.5	21.8	122	2	US-09-770-834-3	Sequence 3, Appl
38	129.5	21.8	122	2	US-09-771-383-2	Sequence 2, Appl
39	124	20.8	121	2	US-08-728-742A-3	Sequence 3, Appl
40	115	19.3	130	2	US-09-770-834-14	Sequence 14, Appl
41	115	19.3	130	2	US-09-771-383-13	Sequence 13, Appl
42	113	19.0	120	2	US-08-728-742A-1	Sequence 1, Appl
43	113	19.0	376	2	US-09-248-796A-11862	Sequence 11862, A
44	107	18.0	131	2	US-09-602-787A-152	Sequence 152, App
45	101	17.0	122	2	US-08-728-742A-4	Sequence 4, Appl

#### ALIGNMENTS

```

RESULT 1
US-09-770-834-2
; Sequence 2, Application US/09770834
; Patent No. 6684162
; GENERAL INFORMATION:
; APPLICANT: Patris, Kevin
; APPLICANT: Somers, William
; APPLICANT: Tam, Amy
; APPLICANT: Lin, Laura
; APPLICANT: Stahl, Mark
; APPLICANT: Powers, Robert
; APPLICANT: Xu, Guan-Yi
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
; FILE REFERENCE: 2368/14
; CURRENT APPLICATION NUMBER: US/09/770, 834
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: US 60/202, 466
; PRIORITY DATE: 2000-05-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent version 3.0
; SEQ ID NO 2
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-770-834-2
Query Match 100.0%; Score 595; DB 2; Length 120;
Best Local Similarity 100.0%; Pred. No. 8.2e-64;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVGIGDITELKRIASMGROKRPFRITRSELDQVYLSKRRKKEFLAGRAAEARS 60
DB 1 AVGIGDITELKRIASMGROKRPFRITRSELDQVYLSKRRKKEFLAGRAAEARS 60
QY 61 KAFGTGIGRGLSFODIEIRKQNGKPYITCTLSQAQVAVSITHTKEVAQAQVIERLS 120
DB 61 KAFGTGIGRGLSFODIEIRKQNGKPYITCTLSQAQVAVSITHTKEVAQAQVIERLS 120
RESULT 2
US-09-163-446-4
; Sequence 4, Application US/09163446
; Patent No. 6515119
; GENERAL INFORMATION:
; APPLICANT: Fritz, Christian
; APPLICANT: Youngman, Philip
; APPLICANT: Guzman, Luz-Maria
; TITLE OF INVENTION: USE OF S-YDCB AND B-YDCB, ESSENTIAL BACTERIAL GENES
; FILE REFERENCE: 07334/097001

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;; CURRENT APPLICATION NUMBER: US/09/163,446  
;; CURRENT FILING DATE: 1998-09-30  
;; NUMBER OF SEQ ID NOS: 12  
;; SOFTWARE: FASTSEQ for Windows Version 3.0  
;; SEQ ID NO 4  
;; LENGTH: 121  
;; TYPE: PRT  
;; ORGANISM: Streptococcus pneumonia  
US-09-163-446-4

Query Match 99.3%; Score 591; DB 2; Length 121;  
Best Local Similarity 100.0%; Pred. No. 2.5e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 61  
DB 3 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 62  
DB 63 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 121

RESULT 3  
US-09-770-834-12  
;; Sequence 12, Application US/09770834  
;; Patent No. 6684162  
;; GENERAL INFORMATION:  
;; APPLICANT: Parrie, Kevin  
;; APPLICANT: Somers, William  
;; APPLICANT: Tam, Amy  
;; APPLICANT: Lin, Laura  
;; APPLICANT: Stahl, Mark  
;; APPLICANT: Powers, Robert  
;; APPLICANT: Xu, Guan-Yi  
;; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE  
;; TITLE OF INVENTION: OF B. SUBTILIS ACP, AND USES THEREOF  
;; FILE REFERENCE: 2368/14  
;; CURRENT APPLICATION NUMBER: US/09/770, 834  
;; CURRENT FILING DATE: 2001-10-12  
;; PRIOR APPLICATION NUMBER: US 60/202,466  
;; PRIOR FILING DATE: 2000-05-08  
;; NUMBER OF SEQ ID NOS: 16  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO 12  
;; LENGTH: 121  
;; TYPE: PRT  
;; ORGANISM: Bacillus sp.  
US-09-770-834-12

Query Match 99.3%; Score 591; DB 2; Length 121;  
Best Local Similarity 100.0%; Pred. No. 2.5e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 61  
DB 3 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 62  
QY 62 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 120  
DB 63 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 121

RESULT 4  
US-09-771-383-1  
;; Sequence 1, Application US/09771383  
;; Patent No. 6957150  
;; GENERAL INFORMATION:  
;; APPLICANT: Parrie, Kevin  
;; APPLICANT: Somers, William  
;; APPLICANT: Tam, Amy  
;; APPLICANT: Lin, Laura  
;; APPLICANT: Stahl, Mark

;; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
;; TITLE OF INVENTION: AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX  
;; FILE REFERENCE: 2368/12  
;; CURRENT APPLICATION NUMBER: US/09/771,383  
;; CURRENT FILING DATE: 2001-01-25  
;; PRIOR APPLICATION NUMBER: US 60/178,639  
;; PRIOR FILING DATE: 2000-01-28  
;; NUMBER OF SEQ ID NOS: 13  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO 1  
;; LENGTH: 121  
;; TYPE: PRT  
;; ORGANISM: B. subtilis  
US-09-771-383-1

Query Match 99.3%; Score 591; DB 2; Length 121;  
Best Local Similarity 100.0%; Pred. No. 2.5e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 61  
DB 3 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 62  
DB 63 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 121

RESULT 5  
US-09-771-383-11  
;; Sequence 11, Application US/09771383  
;; Patent No. 6957150  
;; GENERAL INFORMATION:  
;; APPLICANT: Parrie, Kevin  
;; APPLICANT: Somers, William  
;; APPLICANT: Tam, Amy  
;; APPLICANT: Lin, Laura  
;; APPLICANT: Stahl, Mark  
;; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
;; TITLE OF INVENTION: AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX  
;; FILE REFERENCE: 2368/12  
;; CURRENT APPLICATION NUMBER: US/09/771,383  
;; CURRENT FILING DATE: 2001-01-25  
;; PRIOR APPLICATION NUMBER: US 60/178,639  
;; PRIOR FILING DATE: 2000-01-28  
;; NUMBER OF SEQ ID NOS: 13  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO 11  
;; LENGTH: 121  
;; TYPE: PRT  
;; ORGANISM: Bacillus  
US-09-771-383-11

Query Match 99.3%; Score 591; DB 2; Length 121;  
Best Local Similarity 100.0%; Pred. No. 2.5e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 61  
DB 3 YGIGLDITTELRKIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKAEFSK 62  
QY 62 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 120  
DB 63 AFGTIGRQLSPFDIEIRKQNGKPYIICTKLSQAAVHVSITHTKEYAAAVVIERLSS 121

RESULT 6  
US-09-134-001C-4274  
;; Sequence 4274, Application US/09134001C  
;; Patent No. 6380370  
;; GENERAL INFORMATION:  
;; APPLICANT: Lynn Doucette-Steamm et al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC-007  
CURRENT APPLICATION NUMBER: US/09/134,001C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/064,964  
PRIOR FILING DATE: 1997-11-08  
PRIOR APPLICATION NUMBER: US 60/055,779  
PRIOR FILING DATE: 1997-08-14  
NUMBER OF SEQ ID NOS: 5674  
SEQ ID NO 4274  
LENGTH: 124  
TYPE: PRT  
ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4274

Query Match 47.3%; Score 281.5; DB 2; Length 124;  
Best Local Similarity 51.3%; Pred. No. 4.4e-26;  
Matches 61; Conservative 20; Mismatches 29; Indels 9; Gaps 4;

QY 2 YGIGLDITELKRIASMAGRKRPFAERILTRSELDQYVELS-EKKRKEFLAGRFAKAE 58  
DB 10 YGIGLDITELKRIKLO-NQTKFERILITIERDILNQY--TNEQRLEFLAGRFTYKEA 66  
QY 59 FSKAFGTGIGRQLSFODIEIRKQNGKPYIICTKLSQAAPHVSIHTKEVAAAQVIER 117  
DB 67 FSKALGTGLGKSVGFODINCYNALGKP---CIDYPGFTYHVSITHTENYMSQVILEK 122

RESULT 7  
US-09-770-834-6  
Sequence 6, Application US/09770834  
Patent No. 6684162

GENERAL INFORMATION:

APPLICANT: Parris, Kevin

APPLICANT: Somers, William

APPLICANT: Tam, Amy

APPLICANT: Lin, Laura

APPLICANT: Stahl, Mark

APPLICANT: Powers, Robert

APPLICANT: Xu, Guan-Yi

TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE

FILE REFERENCE: 2368/14

CURRENT APPLICATION NUMBER: US/09/770, 834

PRIOR FILING DATE: 2001-10-12

PRIOR APPLICATION NUMBER: US 60/202,466

NUMBER OF SEQ ID NOS: 16

SOFTWARE: Patentin version 3.0

SEQ ID NO 6

LENGTH: 119

TYPE: PRT

ORGANISM: Staphylococcus sp.

US-09-770-834-6

Query Match 46.7%; Score 278; DB 2; Length 119;  
Best Local Similarity 48.7%; Pred. No. 1.1e-25;  
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;

QY 2 YGIGLDITELKRIASMAGRKRPFAERILTRSELDQYVELS-EKKRKEFLAGRFAKAE 60  
DB 3 HGIQVDLIEIRKQALSKPKLVERILITNEQHKFNFTHEOKKIEFLGRFAKAE 62  
QY 61 KAFGTGIGRQLSFODIEIRKQNGKPYIICTKLSQAAPHVSIHTKEVAAAQVIER 117  
DB 63 KALGTGLGKVAFNIDICVNDLGRKPKI--DYGFTVHVSITHTENYMSQVILEK 116

RESULT 8  
US-09-771-383-5  
Sequence 5, Application US/09771383  
Patent No. 6957150  
GENERAL INFORMATION:

APPLICANT: Parris, Kevin  
APPLICANT: Somers, William  
APPLICANT: Tam, Amy  
APPLICANT: Lin, Laura  
APPLICANT: Stahl, Mark  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
FILE REFERENCE: 2368/12  
CURRENT APPLICATION NUMBER: US/09/771,383  
CURRENT FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: US 60/178,639  
PRIOR FILING DATE: 2000-01-28  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 5  
LENGTH: 119  
TYPE: PRT  
ORGANISM: Staphylococcus  
US-09-771-383-5

Query Match 46.7%; Score 278; DB 2; Length 119;  
Best Local Similarity 48.7%; Pred. No. 1.1e-25;  
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;

QY 2 YGIGLDITELKRIASMAGRKRPFAERILTRSELDQYVELS-EKKRKEFLAGRFAKAE 60  
DB 3 HGIQVDLIEIRKQALSKPKLVERILITNEQHKFNFTHEOKKIEFLGRFAKAE 62  
QY 61 KAFGTGIGRQLSFODIEIRKQNGKPYIICTKLSQAAPHVSIHTKEVAAAQVIER 117  
DB 63 KALGTGLGKVAFNIDICVNDLGRKPKI--DYGFTVHVSITHTENYMSQVILEK 116

RESULT 9  
US-09-107-532A-6990  
Sequence 6990, Application US/09107532A  
Patent No. 6583275

GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Arinleilo, Pamela Deneke

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 6990:

SEQUENCE CHARACTERISTICS:

LENGTH: 129 amino acids

TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURES:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...129  
SEQUENCE DESCRIPTION: SEQ ID NO: 6990:  
US-09-107-532A-6990

Query Match 43.7%; Score 260; DB 2; Length 129;  
Best Local Similarity 48.2%; Pred. No. 1.8e-23;  
Matches 55; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 3 GIGLIDTELKRIASMAGRORFAERILITRSELDQYELSEKRNFLAGRFAKAEAFSA 62  
DB 17 GIGIDAVELPRITLIEKPFARILITSDMKLFQSLPFRHROVEFLGGRVAKAEAFSA 76  
QY 63 FGTGIGRQSLFQDIEIRKQNGKPYIITCTLSQA AVHSITHTKEVAAQVIE 116  
DB 77 MGTGIGR-VTFQDVEILKNENGP-VVTRSPHGNVWSITHTETAFAQITIE 128

RESULT 10  
US-09-583-110-3157  
Sequence 3157, Application US/09583110  
Patent No. 6699703  
GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stramm et al.  
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
FILE REFERENCE: PAT#00-07A  
CURRENT APPLICATION NUMBER: US/09/583, 110  
CURRENT FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553  
PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 3157  
LENGTH: 120  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-3157

Query Match 40.8%; Score 243; DB 2; Length 120;  
Best Local Similarity 44.1%; Pred. No. 1.8e-21;  
Matches 52; Conservative 25; Mismatches 31; Indels 10; Gaps 3;

QY 3 GIGLIDTELKRIASMAGRORFAERILITRSELDQYELSEKRNFLAGRFAKAEAFSA 62  
DB 4 GHGIDIELASISAVTRHGFARVLTQEMERFTSLKGRQIEYLAGRWSAKAEAFSA 63  
QY 63 FGTGIGRQSLFQDIEIRKQNGKPYIITCTLSQA AVHSITHTKEVAAQVIE 116  
DB 64 MGTGIGR-LGFQDLEVLNNERGA PY-----FSGAPFSGKIWLISHTDQFVTASVILE 115

RESULT 11  
US-08-987-144-2  
Sequence 2, Application US/08987144  
Patent No. 6060282  
GENERAL INFORMATION:

APPLICANT: Kosceck Jr., Paul R.  
TITLE OF INVENTION: Streptococcus Pneumoniae Gene Sequence  
TITLE OF INVENTION: dpj-acps  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Eli Lilly and Company  
STREET: Lilly Corporate Center

CITY: Indianapolis  
STATE: Indiana  
COUNTRY: U.S.  
ZIP: 46285

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/987,144  
FILING DATE: December 8, 1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Webster, Thomas D.  
REGISTRATION NUMBER: 39,872  
REFERENCE/DOCKET NUMBER: X-11754  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 317-276-3334  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 122 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-987-144-2

Query Match 40.8%; Score 243; DB 2; Length 122;  
Best Local Similarity 44.1%; Pred. No. 1.8e-21;  
Matches 52; Conservative 25; Mismatches 31; Indels 10; Gaps 3;

QY 3 GIGLIDTELKRIASMAGRORFAERILITRSELDQYELSEKRNFLAGRFAKAEAFSA 62  
DB 6 GHGIDIELASISAVTRHGFARVLTQEMERFTSLKGRQIEYLAGRWSAKAEAFSA 65  
QY 63 FGTGIGRQSLFQDIEIRKQNGKPYIITCTLSQA AVHSITHTKEVAAQVIE 116  
DB 66 MGTGIGR-LGFQDLEVLNNERGA PY-----FSGAPFSGKIWLISHTDQFVTASVILE 117

RESULT 12  
US-09-163-446-2  
Sequence 2, Application US/09163446  
Patent No. 6515119  
GENERAL INFORMATION:

APPLICANT: Filtz, Christian  
APPLICANT: Youngman, Philip  
APPLICANT: Guzman, Luz-Maria  
TITLE OF INVENTION: USE OF S-YDCB AND B-YDCB, ESSENTIAL BACTERIAL GENES  
FILE REFERENCE: 07334/097001  
CURRENT APPLICATION NUMBER: US/09/163,446  
CURRENT FILING DATE: 1998-09-30  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 156  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-163-446-2

Query Match 40.8%; Score 243; DB 2; Length 156;  
Best Local Similarity 44.1%; Pred. No. 2.6e-21;  
Matches 52; Conservative 25; Mismatches 31; Indels 10; Gaps 3;

QY 3 GIGLIDTELKRIASMAGRORFAERILITRSELDQYELSEKRNFLAGRFAKAEAFSA 62  
DB 40 GHGIDIELASISAVTRHGFARVLTQEMERFTSLKGRQIEYLAGRWSAKAEAFSA 99  
QY 63 FGTGIGRQSLFQDIEIRKQNGKPYIITCTLSQA AVHSITHTKEVAAQVIE 116  
DB 100 MGTGIGR-LGFQDLEVLNNERGA PY-----FSGAPFSGKIWLISHTDQFVTASVILE 151

RESULT 13  
US-09-107-433-4199  
Sequence 4199, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Atinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 4199:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 157 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHEICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1..157  
SEQUENCE DESCRIPTION: SEQ ID NO: 4199:  
US-09-107-433-4199  
Query Match 40.8%; Score 243; DB 2; Length 157;  
Best Local Similarity 44.1%; Pred. No. 2.6e-21;  
Matches 52; Conservative 25; Mismatches 31; Indels 10; Gaps 3;  
QY 3 GIGDITELKRIASMGROKRAERILTRSELDQYELSEKRNKFLAGRPAKAFSKA 62  
DB 41 GHGIDIEELASJESAVTRHGFPAKRVLTQEMERFTSLKGRQIEYLQAGWSAKAFSKA 100  
QY 63 FGTGIGRQLSPQDIEIRKQNGKPYIICTKLSQA---AVHSITHTKEVYAAQV 116  
DB 101 MGTGISK-LGFQDLEVLNBERGAPY-----FSQAPFSKIMWSISHTDQFVTAIVLE 152  
RESULT 14  
US-09-543-681A-7596  
Sequence 7596, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRETON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709,1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 7596  
LENGTH: 138  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-7596  
Query Match 35.2%; Score 209.5; DB 2; Length 138;  
Best Local Similarity 41.1%; Pred. No. 2.3e-17;  
Matches 51; Conservative 22; Mismatches 40; Indels 11; Gaps 4;  
QY 3 GIGDITELKRIASMGROKRAERILTRSELDQYELSEKRNKFLAGRPAKAFSK 61  
DB 17 GIGMDIVELSRIEELIGRGERLARILNDNEIITQ--SHQPVAFKRFVAKFAAK 74  
QY 62 ARGTGIGRQLSPQDIEIRKQNGKPYI---ICTKLSQA---AVHSITHTKEVYAAQV 113  
DB 75 ALGTGIRLGIAFNHFEVANDERKPTLHFLAVAKEMAKAGAINAHVTLADEQRYACATV 134  
QY 114 VIER 117  
DB 135 ILEK 138  
RESULT 15  
US-09-770-834-7  
Sequence 7, Application US/09770834  
Patent No. 6684162  
GENERAL INFORMATION:  
APPLICANT: Parrie, Kevin  
APPLICANT: Somers, William  
APPLICANT: Tam, Amy  
APPLICANT: Lin, Laura  
APPLICANT: Stahl, Mark  
APPLICANT: Powers, Robert  
APPLICANT: Xu, Guan-Yi  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE  
TITLE OF INVENTION: OF B. SUBTILIS ACP, AND USES THEREOF  
FILE REFERENCE: 2368/14  
CURRENT APPLICATION NUMBER: US/09/770,834  
CURRENT FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 60/202,466  
PRIOR FILING DATE: 2000-05-08  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: Patent version 3.0  
SEQ ID NO 7  
LENGTH: 169  
TYPE: PRT  
ORGANISM: Thermotoga sp.  
US-09-770-834-7  
Query Match 33.9%; Score 201.5; DB 2; Length 169;  
Best Local Similarity 42.4%; Pred. No. 2.8e-16;  
Matches 50; Conservative 23; Mismatches 30; Indels 15; Gaps 7;  
QY 3 GIGDITELKRIASMGROKRAERILTRSELDQYELSEKRNKFLAGRPAKAFSKA 62  
DB 4 GVGIDVLEVERV-----PEKFAERILGSEKRLP--LTRKRREIARFALKAFKAF 55  
QY 63 FGTGIGRQLSPQDIEIRKQNGKPYIICTKLSQA---AVHSITHTKEVYAAQV 117  
DB 56 LGTGLNGH-SFTDVAF-LESNGKP-VLCVHDFGFFNVAHVSLSDR-FAVALVILEK 109  
Search completed: March 28, 2006, 21:08:35  
Job time : 25.4776 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: March 28, 2006, 21:23:45 ; Search time 18.5075 Seconds  
(without alignments)  
191.238 Million cell updates/sec

Title: US-10-717-138-2

Sequence: 1 AYGIGDITELKRIASWAGR.....SITHTEKAAQVIERLSS 120

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications AA New:  
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2: /SIDS5/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /SIDS5/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /SIDS5/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
5: /SIDS5/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
6: /SIDS5/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
7: /SIDS5/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*  
8: /SIDS5/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	159.5	26.8	125	6	US-10-467-657-7284 Sequence 7284, Ap
2	147	24.7	125	7	US-11-098-686-10976 Sequence 10976, A
3	71	11.9	226	6	US-10-510-941-20 Sequence 20, Appl
4	71	11.9	678	7	US-11-096-568A-26686 Sequence 26686, A
5	71	11.9	720	7	US-11-096-568A-26685 Sequence 26685, A
6	69	11.6	653	6	US-10-821-234-1286 Sequence 1286, Ap
7	69	11.6	657	7	US-11-052-554A-113 Sequence 113, App
8	67.5	11.3	289	7	US-11-010-239-59 Sequence 59, Appl
9	67.5	11.3	610	7	US-11-096-568A-26687 Sequence 26687, A
10	65.5	11.0	481	6	US-10-467-657-694 Sequence 694, Appl
11	65	10.9	481	7	US-11-094-519A-27 Sequence 27, Appl
12	65	10.9	487	6	US-10-980-722-2 Sequence 2, Appl
13	65	10.9	1972	7	US-11-124-367A-446 Sequence 446, App
14	64.5	10.8	1124	7	US-11-087-099-1938 Sequence 1938, Ap
15	64	10.8	351	7	US-11-072-512-2676 Sequence 2676, Ap
16	63.5	10.7	141	6	US-10-467-657-3066 Sequence 3066, Ap
17	63.5	10.7	471	7	US-11-156-084-302 Sequence 302, App
18	63.5	10.7	524	7	US-11-156-084-116 Sequence 116, App
19	63.5	10.7	571	7	US-11-072-512-2709 Sequence 2709, Ap
20	63.5	10.7	737	7	US-11-156-084-117 Sequence 117, App
21	63.5	10.7	915	7	US-11-156-084-119 Sequence 119, App
22	63.5	10.7	1022	7	US-11-156-084-118 Sequence 118, Appl
23	63.5	10.7	1597	6	US-10-877-346-41 Sequence 41, Appl
24	63	10.6	239	7	US-11-087-099-817 Sequence 817, App
25	63	10.6	239	7	US-11-172-740-1406 Sequence 1406, Ap

26	63	10.6	567	6	US-10-793-626-3184 Sequence 3184, Ap
27	63	10.6	805	6	US-10-927-641-77 Sequence 77, Appl
28	62.5	10.5	308	7	US-11-194-246-286 Sequence 286, App
29	62.5	10.5	535	6	US-10-793-626-1318 Sequence 1318, Ap
30	62.5	10.5	639	7	US-11-232-406A-20 Sequence 20, Appl
31	62.5	10.5	1134	7	US-11-087-099-2565 Sequence 2565, Ap
32	62	10.4	476	7	US-11-024-959-519 Sequence 519, App
33	62	10.4	2135	7	US-11-203-806A-12 Sequence 12, Appl
34	62	10.4	2725	7	US-11-113-424-52 Sequence 52, Appl
35	62	10.4	2725	7	US-11-100-640-10 Sequence 10, Appl
36	62	10.4	2725	7	US-11-100-640-16 Sequence 16, Appl
37	61.5	10.3	228	6	US-10-467-657-2290 Sequence 2290, Ap
38	61.5	10.3	240	7	US-11-179-977-19 Sequence 19, Appl
39	61.5	10.3	291	7	US-11-010-239-119 Sequence 119, App
40	61.5	10.3	300	6	US-10-793-626-1900 Sequence 1900, Ap
41	61.5	10.3	459	7	US-11-087-099-9854 Sequence 9854, Ap
42	61.5	10.3	726	7	US-11-096-568A-32400 Sequence 32400, A
43	61.5	10.3	829	7	US-11-096-568A-32399 Sequence 32399, A
44	61.5	10.3	834	7	US-11-096-568A-32398 Sequence 32398, A
45	61	10.3	317	6	US-10-513-780-3 Sequence 3, Appl

#### ALIGNMENTS

```

RESULT 1
US-10-467-657-7284
Sequence 7284, Application US/10467657
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: Seqwin99, version 1.04
SEQ ID NO 7284
LENGTH: 125
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-7284

Query Match      26.8%; Score 159.5; DB 6; Length 125;
Best Local Similarity 48.8%; Pred. No. 4.1e-10;
Matches 42; Conservative 11; Mismatches 30; Indels 3; Gaps 2;

QY 2 YGIGDITELKRIASWAGR-OKRPAIRILTRSELDQYELSEKKNIEFLAGRAKAFS 60
DB 3 YGIGDITELKRIASWAGR-OKRPAIRILTRSELDQYELSEKKNIEFLAGRAKAFS 60
QY 61 KAFGTGIGRGLSFODIEIRKQNGKP 86
DB 61 KAFGTGIGRGLSFODIEIRKQNGKP 86
QY 61 KAVGTGIRGAVFCNIGICHDLGKP 86
DB 61 KAVGTGIRGAVFCNIGICHDLGKP 86

RESULT 2
US-11-098-686-10976
Sequence 10976, Application US/11098686
GENERAL INFORMATION:
APPLICANT: KAPUR, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04

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PRIOR APPLICATION NUMBER: PCT/US03/31318  
 PRIOR FILING DATE: 2003-10-01  
 PRIOR APPLICATION NUMBER: US 60/416,395  
 PRIOR FILING DATE: 2002-10-04  
 NUMBER OF SEQ ID NOS: 11433  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 10976  
 LENGTH: 125  
 TYPE: PRT  
 ORGANISM: Lawsonia intracellularis  
 US-11-098-686-10976

Query Match 24.7%; Score 147; DB 7; Length 125;  
 Best Local Similarity 33.3%; Pred. No. 9.1e-09;  
 Matches 43; Conservative 19; Mismatches 43; Indels 24; Gaps 4;

QY 3 GIGDITELKRIASMAGRQKRF-----RILTRSELDQYELSEKRNKFLAGFAAF 55  
 DB 5 GIGDITELKRI-----KKTFTFGDVFLYKFTSTIE--YNNFLKPSIASIAAFPA 55  
 QY 56 KEAFSKAFGTGIGRQLSFODIEIRKQNGKPEYI-----ICTLSQAAVHSITHTKE 107  
 DB 56 KEAFSKALGTGFGSGITFKNIEISLPNGKQQLHFGNAKKKATSLGVNIMITLTHSHN 115  
 QY 108 YAAQVIE 116  
 DB 116 TAGAVILE 124

RESULT 3  
 US-10-510-941-20  
 Sequence 20, Application US/10510941  
 Publication No. US20060040346A1  
 GENERAL INFORMATION:  
 APPLICANT: Jorgensen, Steen Troels  
 APPLICANT: Rasmussen, Michael Dolberg  
 APPLICANT: Andersen, Jens Tonne  
 APPLICANT: Olesen, Peter Bjarke  
 APPLICANT: Clausen, Ib Groch  
 TITLE OF INVENTION: Improved Bacillus Host Cell  
 FILE REFERENCE: 10297.204-US  
 CURRENT APPLICATION NUMBER: US/10/510,941  
 CURRENT FILING DATE: 2004-10-08  
 NUMBER OF SEQ ID NOS: 22  
 SOFTWARE: PatentIn version 3.3  
 SEQ ID NO 20  
 LENGTH: 226  
 TYPE: PRT  
 ORGANISM: Bacillus licheniformis  
 US-10-510-941-20

Query Match 11.9%; Score 71; DB 6; Length 226;  
 Best Local Similarity 24.7%; Pred. No. 2.7;  
 Matches 21; Conservative 16; Mismatches 40; Indels 8; Gaps 2;

QY 1 AYGIGDITELKRIASMAGRQKRFARILTRSELDQYELSEKRNKFLAGFAAF 60  
 DB 101 AQPIGDVEKIKPI-----NFDIAKRFSPSEHDDIMEKDESRSLSYFHLMTWKESFI 154  
 QY 61 KAFGTGIGRQLSFODIEIRKQNGK 85  
 DB 155 KQAGKGL--SLPLDSFSVKLNEQGR 177

RESULT 4  
 US-11-096-568A-26686  
 Sequence 26686, Application US/11096568A  
 Publication No. US20060048240A1  
 GENERAL INFORMATION:  
 APPLICANT: Alexandrov, Nikolai et al.  
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A  
 CURRENT FILING DATE: 2005-04-01  
 NUMBER OF SEQ ID NOS: 34471  
 SEQ ID NO 26686  
 LENGTH: 678  
 TYPE: PRT  
 ORGANISM: Zea mays subsp. mays  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (1)..(678)  
 OTHER INFORMATION: Cereals Seq. ID no. 13589292  
 US-11-096-568A-26686

Query Match 11.9%; Score 71; DB 7; Length 678;  
 Best Local Similarity 28.3%; Pred. No. 11;  
 Matches 34; Conservative 20; Mismatches 48; Indels 18; Gaps 7;

QY 4 IGLDI-TELKRIASMAGRQKRF---AERILTRSELDQYELSEKRNKFLAGFAAF 59  
 DB 55 IGLDITGTVSCVSMGKPKVLENAGRTTPSV-----VAFQGERLVGTGPAKQAV 109  
 QY 60 SKA-----FGTG--IGRQLSFODIEIRKQNGKPEYIICTLSQAAVHSITHTKEVAAQV 113  
 DB 110 TNPQNTFFGTGKRLIGRR--FDDPQGTQKEMQVYTI-VKAPNGDAWVQTTGKQYSPSQV 166

RESULT 5  
 US-11-096-568A-26685  
 Sequence 26685, Application US/11096568A  
 Publication No. US20060048240A1  
 GENERAL INFORMATION:  
 APPLICANT: Alexandrov, Nikolai et al.  
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 FILE REFERENCE: 2750-1592PUS2  
 CURRENT APPLICATION NUMBER: US/11/096,568A  
 CURRENT FILING DATE: 2005-04-01  
 NUMBER OF SEQ ID NOS: 34471  
 SEQ ID NO 26685  
 LENGTH: 720  
 TYPE: PRT  
 ORGANISM: Zea mays subsp. mays  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (1)..(720)  
 OTHER INFORMATION: Cereals Seq. ID no. 13589291  
 US-11-096-568A-26685

Query Match 11.9%; Score 71; DB 7; Length 720;  
 Best Local Similarity 28.3%; Pred. No. 11;  
 Matches 34; Conservative 20; Mismatches 48; Indels 18; Gaps 7;

QY 4 IGLDI-TELKRIASMAGRQKRF---AERILTRSELDQYELSEKRNKFLAGFAAF 59  
 DB 97 IGLDITGTVSCVSMGKPKVLENAGRTTPSV-----VAFQGERLVGTGPAKQAV 151  
 QY 60 SKA-----FGTG--IGRQLSFODIEIRKQNGKPEYIICTLSQAAVHSITHTKEVAAQV 113  
 DB 152 TNPQNTFFGTGKRLIGRR--FDDPQGTQKEMQVYTI-VKAPNGDAWVQTTGKQYSPSQV 208

RESULT 6  
 US-10-821-234-1286  
 Sequence 1286, Application US/10821234  
 Publication No. US20050255114A1  
 GENERAL INFORMATION:  
 APPLICANT: Labat, Ivan  
 APPLICANT: Scache-Crain, Birgit  
 APPLICANT: Andatman, Susan  
 APPLICANT: Tang, Y. Tom  
 TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
 FILE REFERENCE: 821A  
 CURRENT APPLICATION NUMBER: US/10/821,234





```

; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 694
; LENGTH: 558
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-694.

```

```

Query Match      11.0%; Score 65.5; DB 6; Length 558;
Best Local Similarity 26.4%; Pred. No. 32;
Matches 34; Conservative 29; Mismatches 36; Indels 29; Gaps 9;

```

```

QY 5 GUDTELKRIASMAHRO-KRFAERILTRSELDQYR--LSEKR-----KNPF--LAGRF 53
DB 76 GLAV-ENERLATOLGQRKAFAPQYALEROIRQREVDLEESKQTVARDVNDSDGNRF 134
QY 54 AAKEAFSKAFGTGIGRQLSF-QDIEIRKQNGKPYIICTLGQAAYVSTHTKEYAAQ 112
DB 135 AAEE-----KQIAYLQEKAEAEHLRQSH---TELQKQAQGLAVEN--ERLATQ 178

```

```

QY 113 VVIERLSS 120
DB 179 IEQERLAS 186

```

```

RESULT 11
US-11-094-519A-27
; Sequence 27, Application US/11094519A
; Publication No. US20050281810A1
; GENERAL INFORMATION:
; APPLICANT: BERNSTEIN, Jeanne
; APPLICANT: LEVINE, Zuriel
; TITLE OF INVENTION: VARIANTS OF ALTERNATIVE SPLICING
; FILE REFERENCE: 2786-0140P
; CURRENT APPLICATION NUMBER: US/11/094,519A
; CURRENT FILING DATE: 2005-03-31
; PRIOR APPLICATION NUMBER: US/09/695,293
; PRIOR FILING DATE: 2000-10-25
; PRIOR APPLICATION NUMBER: IL 132558
; PRIOR FILING DATE: 1999-10-25
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 481
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(481)
; OTHER INFORMATION: any Xaa is any amino acid, unknown, or other
US-11-094-519A-27

```

```

Query Match      10.9%; Score 65; DB 7; Length 481;
Best Local Similarity 26.4%; Pred. No. 30;
Matches 24; Conservative 18; Mismatches 37; Indels 12; Gaps 3;

```

```

QY 39 ELSEKRNKFLARFAKAFKAFGTGIGRQLSFQDIEIRKD-----QNGKPYIICT 91
DB 108 KFSISNANIKISGKWKAKRFLKMSG--NFDLSIEGMSISADLKLGSNPTSGKPTTCS 164
QY 92 KLSQ--AAVHVSITHTKEYAAAOVIERLSS 120

```

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DB 165 SCSSHINSVHAISSKVGWMLIQLFHKKIES 195

```

```

RESULT 12
US-10-980-722-2

```

```

; Sequence 2, Application US/10980722
; Publication No. US20060009383A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Theofan, Georgia
; APPLICANT: Horwitz, Arnold
; APPLICANT: Burke, David
; APPLICANT: Baltalan, Manik
; APPLICANT: Grima, Lynn S.

```

```

; TITLE OF INVENTION: Stable Bactericidal/Permeability-Increasing
; Protein Products and Pharmaceutical Compositions
; Containing
; the Same

```

```

; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSER: Marshall, Gerstein & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606

```

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25

```

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/980,722
; FILING DATE: 03-Nov-2004
; CLASSIFICATION: <Unknown>

```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/196,460
; FILING DATE: 16-Jul-2002
; APPLICATION NUMBER: US/09/425,034
; FILING DATE: 19-Oct-1999

```

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Sharp, Jeffrey S.
; REGISTRATION NUMBER: 31,879
; REFERENCE/DOCKET NUMBER: 29715/35065A

```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448

```

```

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 487 amino acids
; TYPE: amino acid

```

```

; MOLECULE TYPE: protein
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-980-722-2

```

```

Query Match      10.9%; Score 65; DB 6; Length 487;
Best Local Similarity 26.4%; Pred. No. 31;
Matches 24; Conservative 18; Mismatches 37; Indels 12; Gaps 3;

```

```

QY 39 ELSEKRNKFLARFAKAFKAFGTGIGRQLSFQDIEIRKD-----QNGKPYIICT 91
DB 108 KFSISNANIKISGKWKAKRFLKMSG--NFDLSIEGMSISADLKLGSNPTSGKPTTCS 164
QY 92 KLSQ--AAVHVSITHTKEYAAAOVIERLSS 120
DB 165 SCSSHINSVHAISSKVGWMLIQLFHKKIES 195

```

```

RESULT 13
US-11-124-367A-446
; Sequence 446, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 446
; LENGTH: 1972
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-124-367A-446

```

```

Query Match      10.9%; Score 65; DB 7; Length 1972;
Best Local Similarity 24.0%; Pred. No. 1.8e+02;
Matches 30; Conservative 17; Mismatches 54; Indels 24; Gaps 5;

```

```

QY 13 RIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGR-----FAKKAFAKFGTIGIG 68
DB 116 RTSSVLAQMSVESAAV--EEFKGELEKKEKEDETSNTTSLGABDTASQQLGFGVL 173
QY 69 ROLFODIEIRKQNGKPYII-----CTKLQAAVAVSTHTEKVAQAQVVI 115
DB 174 ELSSQDQVE---ENTVPYEDKQQLQSVTNSGYTTLSDVANTALKH--EKGNEIDIFI 228
QY 116 ERLSS 120
DB 229 AEQSS 233

```

```

RESULT 14
US-11-087-099-1938
; Sequence 1938, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1938
; LENGTH: 1124
; TYPE: PRT
; ORGANISM: Pisum sativum
; US-11-087-099-1938

```

```

Query Match      10.8%; Score 64.5; DB 7; Length 1124;
Best Local Similarity 25.5%; Pred. No. 99;
Matches 35; Conservative 17; Mismatches 48; Indels 37; Gaps 6;

```

```

QY 5 GLDI-TELKRIASMAGROKRFARILTRSELDQY-----YELSEKRNKNEFL----- 49
DB 922 GTDLETFQKRIIVTSSQCORQLSKILDSDLDGIIDGYLDLEMAEFTLAEVLTSLSQVM 981
QY 50 -----AGFAKKAFAKFAFGTIGIGRQLSFOD---TEIRKDONKGPYIICTKLQ- 95
DB 982 NRSNTGIRIANDVAEHIAETLYGDSLRLQOVLADFLISINSTPGGQVVIASLTKE 1041
QY 96 ----AAVH-----VSITH 104
DB 1042 QLKSKVHLVNLSTH 1058

```

RESULT 15

```

US-11-072-512-2676
; Sequence 2676, Application US/11072512
; Publication No. US2006002945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: MAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUKKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAZUO
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2676
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-072-512-2676

```

```

Query Match      10.8%; Score 64; DB 7; Length 351;
Best Local Similarity 27.8%; Pred. No. 26;
Matches 20; Conservative 14; Mismatches 26; Indels 12; Gaps 2;

```

```

QY 11 LKRIASMAGROKRFARILTRSELDQYELSEKRNKNEFLAGRFAKKAFAKFGTIGIG 70
DB 133 LKRIATSKIRKAFSGISWEPQCNTRFHVVEKRTGQLPGRY-----YSKPF----- 180
QY 71 LSFODIEIRKQ 82
DB 181 VTFHQJNAFEDQ 192

```

```

Search completed: March 28, 2006, 21:28:03
Job time : 19.5075 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 BioCeleration Ltd.

OM protein - protein search, using sw model

Run on: March 28, 2006, 21:22:30 ; Search time 138.507 Seconds

(without alignments)  
361.999 Million cell updates/sec

Title: US-10-717-138-2

Perfect score: 595  
Sequence: 1 AVGIGDITELKRIASMAGR.....SITHTKXYAAQVIERLSS 120

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications\_AA\_Main:\*  
1: /cgn2\_6/ptodaca/1/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodaca/1/pubpaa/US08\_PUBCOMB.pep:\*  
3: /cgn2\_6/ptodaca/1/pubpaa/US09\_PUBCOMB.pep:\*  
4: /cgn2\_6/ptodaca/1/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodaca/1/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodaca/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	595	100.0	120	3	US-09-770-834-2
2	595	100.0	120	4	US-10-717-138-2
3	591	99.3	121	3	US-09-771-383-1
4	591	99.3	121	3	US-09-771-383-1
5	591	99.3	121	3	US-09-771-383-1
6	591	99.3	121	3	US-09-770-834-12
7	304	51.1	119	4	US-10-717-138-12
8	287	48.2	118	4	US-10-282-122A-56496
9	281.5	47.3	124	4	US-10-724-972A-3855
10	279.5	47.0	117	4	US-10-282-122A-70857
11	278.5	46.8	119	4	US-10-282-122A-71569
12	278	46.7	119	3	US-09-771-383-5
13	278	46.7	119	3	US-09-770-834-6
14	278	46.7	119	4	US-10-717-138-6
15	277	46.6	119	3	US-09-815-242-5341
16	277	46.6	119	3	US-09-815-242-12401
17	275	46.2	119	4	US-10-282-122A-44196
18	275	46.2	119	5	US-10-857-625-722
19	269	45.2	117	4	US-10-282-122A-57376
20	269	45.2	117	5	US-10-853-901-230
21	269	45.2	117	5	US-10-853-901-232
22	267	44.9	117	3	US-09-815-242-10776
23	262	44.0	126	4	US-10-282-122A-52394
24	250	42.0	117	5	US-10-501-282-74
25	244	41.0	113	5	US-10-501-282-72
26	243	40.8	120	4	US-10-282-122A-74124
27	243	40.8	120	5	US-10-472-928-3504

28	243	40.8	122	3	US-09-815-242-13472	Sequence 13472, A
29	243	40.8	122	3	US-09-815-242-13649	Sequence 13649, A
30	243	40.8	122	3	US-09-897-645-1	Sequence 1, Appl1
31	243	40.8	157	5	US-10-617-320-4199	Sequence 4199, Ap
32	237.5	39.9	126	4	US-10-282-122A-77481	Sequence 77481, A
33	228.5	38.4	119	3	US-09-769-736-30	Sequence 30, Appl1
34	227	38.2	119	4	US-10-282-122A-72422	Sequence 72422, A
35	221.5	37.2	124	4	US-10-282-122A-51630	Sequence 51630, A
36	221	37.1	118	4	US-10-282-122A-74722	Sequence 74722, A
37	219.5	36.9	126	4	US-10-282-122A-53036	Sequence 53036, A
38	209.5	35.2	126	4	US-10-282-122A-69169	Sequence 69169, A
39	201.5	33.9	169	3	US-09-771-383-6	Sequence 6, Appl1
40	201.5	33.9	169	3	US-09-770-834-7	Sequence 7, Appl1
41	201.5	33.9	169	3	US-10-717-138-7	Sequence 7, Appl1
42	201	33.8	126	3	US-09-771-383-8	Sequence 8, Appl1
43	201	33.8	126	3	US-09-770-834-9	Sequence 9, Appl1
44	201	33.8	126	4	US-10-717-138-9	Sequence 9, Appl1
45	200.5	33.7	126	4	US-10-282-122A-78498	Sequence 78498, A

## ALIGNMENTS

```

RESULT 1
US-09-770-834-2
Sequence 2, Application US/09770834
Publication No. US20030211588A1
GENERAL INFORMATION:
APPLICANT: Parit, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
APPLICANT: Powers, Robert
APPLICANT: Xu, Guan-Yi
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
FILE REFERENCE: 2368/14
CURRENT FILING DATE: 2001-10-12
PRIOR FILING DATE: 2000-05-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 120
TYPE: PRT
ORGANISM: Bacillus subtilis
US-09-770-834-2
Query Match 100.0%; Score 595; DB 3; Length 120;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 AVGIGDITELKRIASMAGRQKRFARILTRSELDQYELSEKKNFLAGRAFAEAFS 60
Db 1 AVGIGDITELKRIASMAGRQKRFARILTRSELDQYELSEKKNFLAGRAFAEAFS 60
Cy 61 KAFGIGIGQLSFQDIEIRKQNGKPYITCTLSQAANVSTHTTKEVYAAQVIERLSS 120
Db 61 KAFGIGIGQLSFQDIEIRKQNGKPYITCTLSQAANVSTHTTKEVYAAQVIERLSS 120
RESULT 2
US-10-717-138-2
Sequence 2, Application US/10717138
Publication No. US20040078147A1
GENERAL INFORMATION:
APPLICANT: Parit, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark

```

APPLICANT: Powers, Robert  
APPLICANT: Xu, Guan-Yi  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE  
TITLE OF INVENTION: OF B. SUBTILIS ACP, AND USES THEREOF  
FILE REFERENCE: 2368/14  
CURRENT APPLICATION NUMBER: US/10/717,138  
CURRENT FILING DATE: 2003-11-19  
PRIOR APPLICATION NUMBER: US/09/770,834  
PRIOR FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 60/202,466  
PRIOR FILING DATE: 2000-05-08  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 2  
LENGTH: 120  
TYPE: PRT  
ORGANISM: Bacillus subtilis  
US-10-717-138-2

Query Match 100.0%; Score 595; DB 4; Length 120;  
Best Local Similarity 100.0%; Pred. No. 1,9e-63;  
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 60  
DB 1 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 60  
QY 61 KAFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 120  
DB 61 KAFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 120

## RESULT 3

US-09-771-383-1  
Sequence 1, Application US/09771383  
Patent No. US20020094562A1  
GENERAL INFORMATION:  
APPLICANT: Parris, Kevin  
APPLICANT: Somers, William  
APPLICANT: Tam, Amy  
APPLICANT: Lhn, Laura  
APPLICANT: Stahl, Mark  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
TITLE OF INVENTION: AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX  
FILE REFERENCE: 2368/12  
CURRENT APPLICATION NUMBER: US/09/771,383  
CURRENT FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: US 60/178,639  
PRIOR FILING DATE: 2000-01-28  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 1  
LENGTH: 121  
TYPE: PRT  
ORGANISM: B. subtilis  
US-09-771-383-1

Query Match 99.3%; Score 591; DB 3; Length 121;  
Best Local Similarity 100.0%; Pred. No. 5,8e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 61  
DB 3 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 62  
QY 62 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 120  
DB 63 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 121

## RESULT 4

US-09-771-383-11  
Sequence 11, Application US/09771383

Patent No. US20020094562A1  
GENERAL INFORMATION:  
APPLICANT: Parris, Kevin  
APPLICANT: Somers, William  
APPLICANT: Tam, Amy  
APPLICANT: Lhn, Laura  
APPLICANT: Stahl, Mark  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
TITLE OF INVENTION: AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX  
FILE REFERENCE: 2368/12  
CURRENT APPLICATION NUMBER: US/09/771,383  
CURRENT FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: US 60/178,639  
PRIOR FILING DATE: 2000-01-28  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 11  
LENGTH: 121  
TYPE: PRT  
ORGANISM: Bacillus  
US-09-771-383-11

Query Match 99.3%; Score 591; DB 3; Length 121;  
Best Local Similarity 100.0%; Pred. No. 5,8e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 61  
DB 3 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 62  
QY 62 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 120  
DB 63 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 121

## RESULT 5

US-09-770-834-12  
Sequence 12, Application US/09770834  
Publication No. US20030211588A1  
GENERAL INFORMATION:  
APPLICANT: Parris, Kevin  
APPLICANT: Somers, William  
APPLICANT: Tam, Amy  
APPLICANT: Lhn, Laura  
APPLICANT: Stahl, Mark  
APPLICANT: Powers, Robert  
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE  
TITLE OF INVENTION: OF B. SUBTILIS ACP, AND USES THEREOF  
FILE REFERENCE: 2368/14  
CURRENT APPLICATION NUMBER: US/09/770,834  
CURRENT FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 60/202,466  
PRIOR FILING DATE: 2000-05-08  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 12  
LENGTH: 121  
TYPE: PRT  
ORGANISM: Bacillus sp.  
US-09-770-834-12

Query Match 99.3%; Score 591; DB 3; Length 121;  
Best Local Similarity 100.0%; Pred. No. 5,8e-63;  
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 61  
DB 3 YGIGLDITELKRIASMGROKRPFAERILTRSELDQYVELSEKRNFEFLAGFAKFAFSK 62  
QY 62 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 120  
DB 63 AFGTGIGROLSFODIEIRKQNGKPYIITCTLSQAAVHVSITHTKEVAAAQVIERLSS 121

```
RESULT 6
US-10-717-138-12
; Sequence 12, Application US/10717138
; Publication No. US20040078147A1
; GENERAL INFORMATION:
; APPLICANT: Parrie, Kevin
; APPLICANT: Somers, William
; APPLICANT: Tam, Amy
; APPLICANT: Lin, Laura
; APPLICANT: Stahl, Mark
; APPLICANT: Powers, Robert
; APPLICANT: Xu, Guan-Yi
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
; TITLE OF INVENTION: OF B. SUBSTITIS ACP, AND USBS THEREOF
; FILE REFERENCE: 2368/14
; CURRENT FILING DATE: 2003-11-19
; PRIOR APPLICATION NUMBER: US/09/770,834
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: US 60/202,466
; PRIOR FILING DATE: 2000-05-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PR
; ORGANISM: Bacillus sp.
US-10-717-138-12

Query Match      99.3%; Score 591; DB 4; Length 121;
Best Local Similarity 100.0%; Pred. No. 5.8e-63;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YGIGDITELKRIASNAAGROKFAERILTRSELDQYIELSEKKRNEFLAGFAKFAFSK 61
DB 3 YGIGDITELKRIASNAAGROKFAERILTRSELDQYIELSEKKRNEFLAGFAKFAFSK 62
QY 62 AFGTGIGROLSPFDIEIRKQNGKPYIICTKLSQAAVHSITHTKEYAAQVIERLSS 120
DB 63 AFGTGIGROLSPFDIEIRKQNGKPYIICTKLSQAAVHSITHTKEYAAQVIERLSS 121

RESULT 7
US-10-282-122A-46229
; Sequence 46229, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Foreyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: US/10/282,122A
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
```

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; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PAM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46229
; LENGTH: 119
; TYPE: PR
; ORGANISM: Bacillus anthracis
US-10-282-122A-46229

Query Match      51.1%; Score 304; DB 4; Length 119;
Best Local Similarity 54.2%; Pred. No. 2.3e-28;
Matches 64; Conservative 20; Mismatches 32; Indels 2; Gaps 1;

QY 3 GIGDITELKRIASNAAGROKFAERILTRSELDQYIELSEKKRNEFLAGFAKFAFSK 62
DB 4 GIGDITELKRIASNAAGROKFAERILTRSELDQYIELSEKKRNEFLAGFAKFAFSK 63
QY 63 AFGTGIGROLSPFDIEIRKQNGKPYIICTKLSQAAVHSITHTKEYAAQVIERLSS 120
DB 64 AFGTGIGROLSPFDIEIRKQNGKPYIICTKLSQAAVHSITHTKEYAAQVIERLSS 119

RESULT 8
US-10-282-122A-60496
; Sequence 60496, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Foreyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT FILING DATE: US/10/282,122A
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
```



```

CURRENT APPLICATION NUMBER: us/10/282.1222A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See file Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 71569
LENGTH: 119
TYPE: PRT
ORGANISM: Staphylococcus haemolyticus
US-10-282-1222A-71569
```

```

Query Match 46.8%; Score 278.5; DB 4; Length 119;
Best Local Similarity 50.0%; Pred. No. 2.7e-25;
Matches 59; Conservative 22; Mismatches 32; Indels 5; Gaps 3;
```

```

QY 2 YGIGDITELKRIASMAQROK-REARILTRSELDQYEL-SEKROEFLAGFAKEAF 59
DB 3 HGIQDLIIRIKAFKFKQKQKLVKILQEEQPHSKSKRKFELSGFATKEAF 62
QY 60 KAFGTGIGRQLSFODIEIRKQNGKPYIICTLSQAANVVSITHTKEVAAAQVIER 117
DB 63 KALGTGLGKTVAFNDICYNDELGKPK---DYEGFIVHVSISHTEHVAMSGVLEK 117
```

```

RESULT 12
US-09-771-383-5
Sequence 5, Application US/09771383
Patent No. US20020094562A1
GENERAL INFORMATION:
APPLICANT: Parris, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE
FILE REFERENCE: 2368/12
CURRENT APPLICATION NUMBER: US/09/771,383
CURRENT FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: US 60/178,639
PRIOR FILING DATE: 2000-01-28
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.0
SEQ ID NO 5
LENGTH: 119
TYPE: PRT
ORGANISM: Staphylococcus
US-09-771-383-5
```

```

Query Match 46.7%; Score 278; DB 3; Length 119;
Best Local Similarity 48.7%; Pred. No. 3.1e-25;
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;
```

```

QY 2 YGIGDITELKRIASMAQROKFAEILTRSELDQYELS-EKROEFLAGFAKEAF 60
DB 3 HGIQDLIIRIKQALYSKQPKLVERILTKNEQKNNFTHEORKLEFLAGFAKEAF 62
QY 61 KAFGTGIGRQLSFODIEIRKQNGKPYIICTLSQAANVVSITHTKEVAAAQVIER 117
DB 63 KALGTGLGKTVAFNDICYNDELGKPKI---DYEGFIVHVSISHTEHVAMSGVLEK 116
```

```

RESULT 13
US-09-770-834-6
Sequence 6, Application US/09770834
Publication No. US20030211586A1
GENERAL INFORMATION:
APPLICANT: Parris, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
APPLICANT: Powers, Robert
APPLICANT: Xu, Guan-Yi
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
FILE REFERENCE: 2368/14
CURRENT APPLICATION NUMBER: US/09/770,834
CURRENT FILING DATE: 2001-10-12
PRIOR APPLICATION NUMBER: US 60/202,466
PRIOR FILING DATE: 2000-05-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 6
LENGTH: 119
TYPE: PRT
ORGANISM: Staphylococcus sp.
US-09-770-834-6
```

```

Query Match 46.7%; Score 278; DB 3; Length 119;
Best Local Similarity 48.7%; Pred. No. 3.1e-25;
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;
```

```

QY 2 YGIGDITELKRIASMAQROKFAEILTRSELDQYELS-EKROEFLAGFAKEAF 60
DB 3 HGIQDLIIRIKQALYSKQPKLVERILTKNEQKNNFTHEORKLEFLAGFAKEAF 62
QY 61 KAFGTGIGRQLSFODIEIRKQNGKPYIICTLSQAANVVSITHTKEVAAAQVIER 117
DB 63 KALGTGLGKTVAFNDICYNDELGKPKI---DYEGFIVHVSISHTEHVAMSGVLEK 116
```

```

RESULT 14
US-10-717-138-6
Sequence 6, Application US/10717138
Publication No. US20040078147A1
GENERAL INFORMATION:
APPLICANT: Parris, Kevin
APPLICANT: Somers, William
APPLICANT: Tam, Amy
APPLICANT: Lin, Laura
APPLICANT: Stahl, Mark
APPLICANT: Powers, Robert
APPLICANT: Xu, Guan-Yi
TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION STRUCTURE
FILE REFERENCE: 2368/14
CURRENT APPLICATION NUMBER: US/10/717,138
CURRENT FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US/09/770,834
PRIOR FILING DATE: 2001-10-12
PRIOR APPLICATION NUMBER: US 60/202,466
PRIOR FILING DATE: 2000-05-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 6
```



LENGTH: 119  
TYPE: PRT  
ORGANISM: Staphylococcus sp.  
US-10-717-138-6

Query Match 46.7%; Score 278; DB 4; Length 119;  
Best Local Similarity 48.7%; Pred. No. 3.1e-25;  
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;

QY 2 YGIGLDITELKRIASMGROKRFARILTRSELDQYELS-EKKRNEFLAGRFPAKEAFS 60  
DB 3 HGIQVDLIEIDRIQALYSKQPKLVERILITNEQKHNNFTHEQKIFFLAGRFATKEAFS 62

QY 61 KAFGTGIGROLSPQDIEIRKQNGKPYIICTKLSQAAVHSITHTKEVAAAQVIER 117  
DB 63 KALGTGIGKVAFAFDICVNDLGKPKI--DYEGFIVHVISHTHTYAMSQVVLK 116

## RESULT 15

US-09-815-242-5341  
Sequence 5341, Application US/09815242  
Patent No. US20020061569A1

GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyskind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.0114  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 1410  
SOFTWARE: PasteSeq for Windows Version 4.0  
SEQ ID NO 5341  
LENGTH: 119  
TYPE: PRT  
ORGANISM: Staphylococcus aureus  
US-09-815-242-5341

Query Match 46.6%; Score 277; DB 3; Length 119;  
Best Local Similarity 48.7%; Pred. No. 4.1e-25;  
Matches 57; Conservative 25; Mismatches 31; Indels 4; Gaps 2;

QY 2 YGIGLDITELKRIASMGROKRFARILTRSELDQYELS-EKKRNEFLAGRFPAKEAFS 60  
DB 3 HGIQVDLIEIDRIQALYSKQPKLVERILITNEQKHNNFTHEQKIFFLAGRFATKEAFS 62

QY 61 KAFGTGIGROLSPQDIEIRKQNGKPYIICTKLSQAAVHSITHTKEVAAAQVIER 117  
DB 63 KALGTGIGKVAFAFDICVNDLGKPKI--DYEGFIVHVISHTHTYAMSQVVLK 116

Search completed: March 28, 2006, 21:27:27  
Job time: 139.507 secs